

Scott Gray's Gaming CGI Programs

Contents:

CGI Card Counter 2

CGI Dice Pool Calculator 8

CGI D&D Power Attack Calculator 16

CGI Shadowrun Dice Pool Calculator 28

CGI Card Counter

```
#!/usr/bin/perl

# By Scott David Gray

# Copyright 1999

# Set initial HTML values

$mylocation = "http://www.unseelie.org/cgi-bin/cardco.cgi" ;

$rttitle = "Perl Card Calculator Page!" ;

$rfirstline = "Perl Card Calculator:" ;

$rbgcolor = "99AABB" ;

$rfontcolor = "222288" ;

$rlinkcolor = "0000FF" ;

$rpastlinkcolor = "4422CC" ;

$rclicklinkcolor = "000000" ;

# Gather raw data

use CGI qw(:standard);

$deck = param("deck");

$target = param("target");

$hand = param("hand");

# Calculate things

# probability=1-(((D-T)!)-((D-T-H)!))/((D!)-((D-H)!)-1))

# Where D=deck size, T=number of target cards and H=number of cards to be drawn
# into the hand.

$numerator=1 ;

$denominator=1 ;

$counter=$hand ;

while ($counter > 0) {

$numerator=($numerator*($deck-$target-$counter+1)) ;
```

```

$denominator=($denominator*($deck-$counter+1)) ;

$counter = ($counter-1) ;

}

$result= ((1-($numerator/$denominator))*100) ;

if ($target > $deck || $hand > $deck || $hand < 1 || $target < 1) {

$result=0 ;

}

# Output

print "Content-type: text/html\nPragma: no-cache\n\n";

# HTML

print <<END_HTML;

<HTML>

<HEAD>

<TITLE>$rttitle</TITLE></HEAD>

<BODY BGCOLOR=\"$rbgcolor\" TEXT=\"$rfontcolor\" LINK=\"$rlinkcolor\" VLINK=\"$rpastlinkcolor\" ALINK=\"$rclicklinkcolor\">

<H2>$rfirstline</H2>

<br>

&copy; 1999 by <A HREF=http://www.unseelie.org/>Scott David Gray</A>.

<p>

END_HTML

if (param()) {

print <<END_HTML2;

<HR>

There is a $result% chance of drawing at least one target card, for a deck size input as $deck, a number of target cards input as $target, and a number of cards to be drawn input as $hand.

```

```
<P>

<HR>

<P>

END_HTML2

}

print <<END_HTML3;
```

One can calculate the probability of drawing at least ONE of a set of target cards from a deck by using the following formula, in which D=deck size, T=number of target cards and H=number of cards to be drawn into the hand:

```
<br>

probability=1-(((D-T)!)-((D-T-H))!)/ ((D!)-((D-H)!)-1))
```

```
<HR>
```

```
<P>
```

The form below allows you to submit numbers to the card calculator program. The numbers will be crunched on another machine, and you will be told the probability of drawing one or more specific target cards from a random deck of any size with any number of draws.

```
<P>
```

When you tell the program how many cards are in the deck, count all unidentified cards in people's hands, and discount all cards that you know the identity of.

```
<P>
```

Likewise, when you tell the program how many target cards are in the deck, discount all target cards that you know the identity of.

```
<P>
```

EX: Henry and John are playing cards. They each have a hand of four cards, from a normal 52 card deck. John has an ace, a ten, and 2 fours. John doesn't know what Henry has. If John draws three more cards, and he wants to draw at least one more ace, to calculate his chances with this program he would answer:

```
<P>
```


48 cards in the deck (52 card deck, minus the cards in John's hand).

&nbs; &nbs;

3 target cards (4 aces in the deck, minus the one John knows about).

&nbs; &nbs;

3 cards to be drawn.

<P>

You must make at least one draw, and have at least one target card. The deck must have at least as many cards as will be drawn. The deck must have at least as many cards as there are target cards.

<P>

All numbers must be input as positive integers. Neither the size of the hand, nor the number of target cards, can exceed the size of the deck.

<P>

<HR>

<FORM ACTION=\"\$mylocation\" METHOD=GET>

<H3>Data:</H3>

Total number of cards in deck: <INPUT NAME=\"deck\">

Number of target cards in deck: <INPUT NAME=\"target\">

Number of cards to be drawn: <INPUT NAME=\"hand\">

<INPUT TYPE=\"submit\" VALUE=\"Calculate\">

</FORM>

<P>

<HR>

This program was designed (and the math calculated) by Scott David Gray, from the Sudbury Valley School.

<HR>

If you find this program to be useful, you will want to check out my

PERL General Dice Pool Calculator program,

and

PERL Shadowrun Dice Pool Calculator program.

<P>

Click here for copy of this program.

</FORM>

<P>

<HR>

<P>

<CENTER>

If you find this program useful, please treat me to a \\$3 cup of coffee!!!

<form action="https://www.paypal.com/cgi-bin/webscr" method="post">
<input type="hidden" name="cmd" value="_s-xclick">
<input type="hidden" name="encrypted" value="-----BEGIN PKCS7-----
MIIHZwYJKoZIhvCNQcEoIIHWDCCB1QCAQEExggEwMIIIBLAIBADCBIDCBjjELMAkGA1UEBhMC
VVMxCzAJBgNVBAgTAkNBMRWxFAYDVQQHEw1Nb3VudGFpbIBWaWV3MRQwEgYDVQQKEwt
QYXlQYWwgSW5jLjETMBEGA1UECxQKbG12ZV9jZXJ0czERMA8GA1UEAxQIbG12ZV9hcGkxHDA
aBgkqhkiG9w0BCQEWDXJIQHBheXBhbC5jb20CAQAwDQYJKoZIhvCNQEBBQAEgYAbpE+8xC
b+nC8nwgVx1OtFerL+i2As0Ofv0yxeoYMyHXs8tbM55DsQBofEXaMT6Gsy8qbC0FJs3BSeOaX2X
Aw8P07haRNJqFV2h6AdugcNEBqaiZPaQGtLhPVz5fwapoy3O6q0Ois1q+vDFOJR5gXx4bLg4Tmv
12K3mHxGjXn1pTELMAkGBSsOAwIaBQAwgeQGCSqGSIB3DQEHAUBggqhkiG9w0DBwQIW4
aUAFC1riuAgcA0loE58jleXsrgiYAgM3eLjr9OgJV2vmhKP+xBdu5cg0yfBOlYlv5sAMF/h1YqFHw9N
RPBuFhHK//fuggot956LWQiMi9iEV7fcE5c46RBbA9shBSYQCdFe0xmY/paKTyswosXMLF341F
ZXeinCNTcrSYsqDef1v7jRtC5DUYD8MaWvHploSMBzHy3hT8/Fhrvdo4fT9dQUWGdvF8hD0j9rdz

XBnODkYOr2oTI/HRyilJJwg1MprbwK0bXDTsW0gggOHMIIDgzCCAuygAwIBAgIBADANBhkqhk1
 G9w0BAQUFADCBjjELMAkGA1UEBhMCVVMxCzAJBgNVBAgTAkNBMRYwFAYDVQQHEw1Nb3V
 udGFpbIBWaWV3MRQwEgYDVQQKEwtQYXIQYWwgSW5jLjETMBEGA1UECxQKbG12ZV9jZXJ0c
 zERMA8GA1UEAxQIbG12ZV9hcGkxHDAaBhkqhk1G9w0BCQEWDXJ1QHBheXBhbC5jb20wHhcN
 MDQwMjEzMTAxMzE1WhcNMzUwMjEzMTAxMzE1WjCBjjELMAkGA1UEBhMCVVMxCzAJBgNVB
 AgTAkNBMRYwFAYDVQQHEw1Nb3VudGFpbIBWaWV3MRQwEgYDVQQKEwtQYXIQYWwgSW5jL
 jETMBEGA1UECxQKbG12ZV9jZXJ0czERMA8GA1UEAxQIbG12ZV9hcGkxHDAaBhkqhk1G9w0BC
 QEWDXJ1QHBheXBhbC5jb20wgZ8wDQYJKoZihvcNAQEBBQADgY0AMIGJAoGBAMFHTt38RMx
 LXJyO2SmS+Ndl72T7oKJ4u4uw+6awntALWh03PewmIJuzbALScsTS4sZoS1fKciBGoh1gIfHzylv
 kdNe/hJl66/RGqrj5rFb08sAABNTzDTiqqNpJeBsYs/c2aiGozptX2RlnBktH+SUlpAajW724Nv2Wv
 hif6sFAgMBAAGjge4wgeswHQYDVR0OBBYEJaffLvGbxe9WT9S1wob7BDWZJRrMIG7BgnVHSM
 EgbMwgbCAFJaffLvGbxe9WT9S1wob7BDWZJRroYGUpIGRMIGOMQswCQYDVQQGEwJVUzELM
 AkGA1UECBMCQ0ExFjAUBgNVBAcTDU1vdW50YWluIFZpZXcxFDASBgnVB AoTC1BheVBhbCBJ
 bmMuMRMwEQYDVQQLFApsaXZIX2NlcnRzMREwDwYDVQQDFAhxaXZIX2FwaTEcMBoGCSqGS
 Ib3DQEJARYNcmVAcGF5cGFsLmNvbYIBADAMBgnVHRMEBTADAQH/MA0GCSqGSIb3DQE
 BAA4GBAIfOlaagFr171+jq6OKidbWFSE+Q4FqROvdgIONth+8kSK//Y/4ihuE4Ymvzn5ceE3S/i
 BSQQMjyvb+s2TWbQYDwcp129OPiBd9epdr4tJOUNiSojw7BHwYRiPh58S1xG1FgHFxwrEBb3dg
 NbMUa+u4qectsMAXpVHnD9wlyfmHMYIBmjCCAZYCAQEwgZQwgY4xCzAJBgNVBAYTAIVTMQs
 wCQYDVQQIEwJDQTEWMBQGA1UEBxMNTW91bnRhaW4gVmldzEUMBIGA1UEChMLUGF5UG
 FsIEluYy4xEzARBgNVBAsUCmxpdmVfY2VydHMxETAPBgNVBAMUCGxpdmVfYXBpMRwwGgYJK
 oZihvcNAQkBFg1yZUBwYXlwYWwuY29tAgEAMAkGBSsOAwiBQCgXTAYBhkqhk1G9w0BCQMxC
 wYJKoZihvcNAQcBMBwGCSqGSIb3DQEJBTEPFw0xMTA1MTAxODI3MzFaMCMGCSqGSIb3DQE
 JBDEWBBA6WnTs3o1HVhqlmpjyw84Wk0zkTANBhkqhk1G9w0BAQEFASBgfAvIuaH02d+WtK
 SNTl7ec+WXzWsSA6cuh3k4riInrfNVoTlvryPF15RQLSJApD/ipSYOlwDyr4S6Sh9QIHGoAztyuFjw
 gEPfGtYjULS8PxIEB7w9ltfgpUe8oB+E2+/OvM1bQwEvV2GFpGni2OMKs//RUD3eXqk1g2Qw8f+
 J3----END PKCS7----
 "

```

<input type="image" src="http://www.unseelie.org/coffee.gif" border="0" name="submit"
alt="PayPal - The safer, easier way to pay online!">

</form>
  
```

</CENTER>

</BODY>

</HTML>

END_HTML3

CGI Dice Pool Calculator

```
#!/usr/bin/perl

# (c) 2000 by Scott David Gray

# Formula is N!/C(N,M)

# Set initial HTML values

$mylocation = "http://www.unseelie.org/cgi-bin/dicepo.cgi" ;

$rttitle = "Scott Gray's Dice Pool Calculator" ;

$rfirstline = "Scott Gray's Dice Pool Calculator" ;

$rbgcolor = "FFFFFF" ;

$rfontcolor = "000000" ;

$rlinkcolor = "000000" ;

$rpastlinkcolor = "FF0000" ;

$rclicklinkcolor = "FF00FF" ;

# Gather raw data

use CGI qw(:standard);

$number = param("number");

$sides = param("sides");

$target = param("target");

$cumulate = param("cumulus");

# Calculate things

if ($cumulate=="1") {

$cume=" (cumulative)";

}

elsif ($cumulate=="0") {

$cume=" (non-cumulative)";

}
```

```

else {
    $cume=" (both cumulative and non-cumulative)"; }

# Output

print "Content-type: text/html\nPragma: no-cache\n\n";

# HTML

print <>END_HTML;

<HTML>

<HEAD>

<META NAME="description" CONTENT="A cgi program to calculate dice pools for
rpgs.">

<META NAME="keywords" CONTENT="die dice pool pools shadowrun star trek world
of darkness wod storyteller vampire werewolf mage wraith changeling hunter rpg
roleplaying game free">

<TITLE>$rttitle</TITLE></HEAD>

<BODY BGCOLOR="\#$rbgcolor\" TEXT="\#$rfontcolor\" LINK="\#$rlinkcolor\" 
VLINK="\#$rpastlinkcolor\" ALINK="\#$rclicklinkcolor\">

<H2>$rfirstline</H2>

<p>

This program is &copy; 2000 by <a href="http://www.unseelie.org/">Scott
David Gray</A>.

<p>

This program is designed to calculate probabilities when using a dice pool.

<p>

Dice pools are used in role playing games such as <b>Shadowrun</b>, <b>Star
Trek</b>, the <b>Storyteller</b> games, and other games. A dice pool is used
by rolling a number of dice and, rather than adding them together, comparing
the rolls to a <i>target number</i> and counting how <i>many</i> dice meet that
target.

<p>

END_HTML

if ($number>0 && $sides>1 && $sides<1000 && $target<($sides+1) && $target>1 &&

```

```

$target<1000) {

print <<END_HTML_2;

    Here are the figures$cume for $number $sides-sided dice rolled against a
target number of $target:

<p>

END_HTML_2

$an1=0;

$av=0;

# Probability of success:

$pst=($sides - $target +1) / $sides;

# Probability of failure:

$pft=($target-1) / $sides;

# Countdown from number of dice to zero

for ( $m=$number ; $m>0 ; $m-- ) {

$nm=($number-$m);

$n1=1;

for ($counter=1;$counter<($number+1);$counter++) {

$n1*=$counter;

}

$m1=1;

for ($counter=1;$counter<($m+1);$counter++) {

$m1*=$counter;

}

$nm1=1;

for ($counter=1;$counter<($nm+1);$counter++) {

$nm1*=$counter;

}

```

```

$ps=1;

for ($counter=1;$counter<($m+1);$counter++) {

$ps*=$pst;

}

$pf=1;

for ($counter=1;$counter<($nm+1);$counter++) {

$pf*=$pft;

}

# Calculate C(N, M)

$cnm=$n1/($nm1 * $m1);

# Calculate actual probability of success

$an=$cnm*$ps*$pf;

# Add to cumulative average of successes

$av+=($an*$m);

$an1+=$an;

if ($cumulate==0 || $cumulate==2) {

if ($m > 1) {

$val=($an*100);

printf("The probability of $m successes is $val");

printf("<br>")

}

if ($m < 2) {

$val=($an*100);

printf("The probability of $m success is $val");

printf("<br>")

}

```

```

}

if ($cumulate==1 || $cumulate==2) {
    if ($m > 1) {
        $val=($an1*100);

        printf("The probability of $m successes or more is $val");
        printf("<br>");
    }
    if ($m < 2) {
        $val=($an1*100);

        printf("The probability of $m success or more is $val");
        printf("<br>");
    }
}

if ($m==1) {
    $no1=((1-$an1)*100);

    printf("The probability of no successes is $no1");
}
}

} else {

print <<END_HTML_BAD;

When entering the fields, be sure that the number of dice you enter is greater
than zero, that the number of sides you enter is between 2 and 999 (inclusive),
and that the target number you enter is between 2 and the number of sides
(inclusive).

END_HTML_BAD

}

print <<END_HTML_END;

```


<p>

and here is the form itself:

<p>

<FORM ACTION=\"\$mylocation\" METHOD=\"get\">

Number of dice to be thrown: <INPUT name=\"number\">

Number of sides each die has: <INPUT name=\"sides\">

Target number: <INPUT name=\"target\">

<p>

<INPUT type=\"radio\" name=\"cumulus\" value=\"0\">Not cumulative

<INPUT type=\"radio\" name=\"cumulus\" value=\"1\">Cumulative

<INPUT type=\"radio\" name=\"cumulus\" value=\"2\">Both cumulative and not cumulative

<p>

<INPUT type=\"submit\" name=\"action\" value=\"Press once to send\">

<INPUT type=\"reset\">

<P>

<HR>

This program was designed (and the math calculated) by <A
 HREF=<http://www.unseelie.org/>>Scott David Gray, from the <A
 HREF=<http://www.sudval.org>>Sudbury Valley School.

<HR>

If you find this program to be useful, you will want to check out my

PERL Card Calculator program,

and

PERL Shadowrun Dice Pool Calculator program.

<P>

Click here for a copy of this program.

</FORM>

<P>

<HR>

<P>

<CENTER>

If you find this program useful, please treat me to a \\$3 cup of coffee!!!


```
<form action="https://www.paypal.com/cgi-bin/webscr" method="post">
<input type="hidden" name="cmd" value="_s-xclick">
<input type="hidden" name="encrypted" value="-----BEGIN PKCS7-----
MIIHZwYJKoZIhvcNAQcEoIIHWDCB1QCAQEExggEwMIIBLAIBADCBIDCBjjELMAkGA1UEBhMC
VVMxCzAJBgNVBAgTAkNBMRWfAYDVQQHEw1Nb3VudGFpbIBWaWV3MRQwEgYDVQQKEwt
QYXlQYWwgSW5jLjETMBEGA1UECxQKbG12ZV9jZXJ0czERMA8GA1UEAxQIbG12ZV9hcGkxHDA
aBgkqhkiG9w0BCQEWDXJ1QHBheXBhbC5jb20CAQAwDQYJKoZIhvcNAQEBBQAEgYAbpE+8xC
b+nC8nwgVx1OtFerL+i2As0Ofv0yxeoYMyHXs8tbM55DsQBofEXaMT6Gsy8qbC0FJs3BSeOaX2X
Aw8P07haRNJqFV2h6AdugcNEBqaiZPaQGtLhPVz5fwapoy3O6q0Ois1q+vDFOJR5gXx4bLg4Tmv
12K3mHxGjXn1pTELMAkGBSsOAwIaBQAwgeQGCSqGSIb3DQEHAUABggqhkG9w0DBwQIW4
aUAFC1riuAgcA0loE58jIeXsrgiYAgM3eLjr9OgJV2vmhKP+xBdu5cg0yfBOIYlv5sAMF/h1YqFHw9N
RPBuFhHK//fuggot956LWQiMiI9iEV7fcE5c46RBbA9shBSYQCdFe0xmY/paKTyswosXMLF341F
ZXeinCNTcrSYsqDef1v7jRtC5DUYD8MaWvHploSMBzHy3hT8/Fhrvdo4ft9dQUWGdvF8hD0j9rdz
XBnODkYOr2oTI/HRyiJJwg1MprbwK0bXDTsWOoggOHMIIIDgzCCAuygAwIBAgIBADANBgkqhki
G9w0BAQUFADCBjjELMAkGA1UEBhMCVVMxCzAJBgNVBAgTAkNBMRWfAYDVQQHEw1Nb3V
udGFpbIBWaWV3MRQwEgYDVQQKEwtQYXlQYWwgSW5jLjETMBEGA1UECxQKbG12ZV9jZXJ0c
zERMA8GA1UEAxQIbG12ZV9hcGkxHDAaBggqhkG9w0BCQEWDXJ1QHBheXBhbC5jb20wHhcN
MDQwMjEzMTAxMzE1WhcNMzUwMjEzMTAxMzE1WjCBjjELMAkGA1UEBhMCVVMxCzAJBgNVB
AgTAkNBMRWfAYDVQQHEw1Nb3VudGFpbIBWaWV3MRQwEgYDVQQKEwtQYXlQYWwgSW5jL
jETMBEGA1UECxQKbG12ZV9jZXJ0czERMA8GA1UEAxQIbG12ZV9hcGkxHDAaBggqhkG9w0BC
QEWDXJ1QHBheXBhbC5jb20wgZ8wDQYJKoZIhvcNAQEBBQADgY0AMIGJAoGBAMFHT38RMx
```

LXJyO2SmS+Ndl72T7oKJ4u4uw+6awntALWh03PewmIJuzbALSsTS4sZoS1fKciBGoh11gIfHzylv
 kdNe/hJl66/RGqrj5rFb08sAABNTzDTiqqNpJeBsYs/c2aiGozptX2RlnBktH+SUlpAajW724Nv2Wv
 hif6sFAgMBAAGjge4wgeswHQYDVR0OBBYEFJaffLvGbxe9WT9S1wob7BDWZJRrMIG7BgnVHSM
 EgbMwgbCAFJaffLvGbxe9WT9S1wob7BDWZJRroYGUpIGRMIGOMQswCQYDVQQGEwJVUzELM
 AkGA1UECBMCQ0ExFjAUBgNVBAcTDU1vdW50YWluIFZpZXcxFDASBgNVBAoTC1BheVBhbCBJ
 bmMuMRMwEQYDVQQLFApsaXZIX2NlcnRzMREwDwYDVQQDAhsaXZIX2FwaTEcMBoGCSqGS
 Ib3DQEJARYNcmVAcGF5cGFsLmNvbYIBADAMBgNVHRMEBTADAQH/MA0GCSqGSIb3DQEBB
 QUAA4GBAIfOlaagFrI71+jq6OKidbWFSE+Q4FqROvdgIONth+8kSK//Y/4ihuE4Ymvzn5ceE3S/i
 BSQQMjyvb+s2TWbQYDwcp129OPIbD9epdr4tJOUNiSojw7BHwYRiPh58S1xG1FgHFXwrEBb3dg
 NbMUa+u4qectsMAXpVHnD9wlyfmHMYIBmjCCAZYCAQEWgZQwgY4xCzAJBgNVBAYTAIVTMQs
 wCQYDVQQIEwJDQTEWMBQGA1UEBxMNTW91bnRhaW4gVmldzEUMBIGA1UEChMLUGF5UG
 FsIEluYy4xEzARBgNVBAsUCmxpdmVfY2VydHMxETAPBgNVBAMUCGxpdmVfYXBpMRwwGgYJK
 oZihvcNAQkBFg1yZUBwYXlwYWwuY29tAgEAMAkGBSsOAwiBQCgXTAYBqkqhkiG9w0BCQMxC
 wYJKoZihvcNAQcBMBwGCSqGSIb3DQEJBTEPFw0xMTA1MTAxODI3MzFaMCMGCSqGSIb3DQE
 JBDEWBBSA6WnTs3o1HVhqlmpjyw84Wk0zkTANBqkqhkiG9w0BAQEFAASBgFavIuaH02d+WtK
 SNTI7ec+WXzWsSA6cuh3k4riInrfNVoTIvryPF15RQLSJApD/ipsYOlwDyr4S6Sh9QIHGoAztyuFjw
 gEPfGtYjULS8PxIEB7w9ltfgpUe8oB+E2+/OvM1bQwEvV2GFpGni2OMKs//RUD3eXqk1g2Qw8f+
 J3----END PKCS7----
 ">
 <input type="image" src="http://www.unseelie.org/coffee.gif" border="0" name="submit"
 alt="PayPal - The safer, easier way to pay online!">

 </form>
 </CENTER>
 </BODY>
 </HTML>

END_HTML_END

CGI D&D Power Attack Calculator

```
#!/usr/bin/perl

# (c) 2008 by Scott David Gray

# Set initial HTML values

$mylocation = "http://www.unseelie.org/cgi-bin/powerattack.cgi" ;

$rttitle = "D&D 3rd edition Power Attack damage estimator" ;

$rfirstline = "D&D 3rd edition Power Attack damage estimator:" ;

$rbgcolor = "99AABB" ;

$rfontcolor = "222288" ;

$rlinkcolor = "0000FF" ;

$rpastlinkcolor = "4422CC" ;

$rclicklinkcolor = "000000" ;

# Gather raw data

use CGI qw(:standard);

$basetohit = param("basetohit");

$basedamage = param("basedamage");

$powermultiplier = param("powermultiplier");

$critthreat = param("critthreat");

$basetoconfirm = param("basetoconfirm");

$critmult = param("critmult");

$minac = param("minac");

$maxac = param("maxac");

# Output

print "Content-type: text/html\nPragma: no-cache\n\n";

# HTML

print <<END_HTML;
```

```

<HTML>

<HEAD>

<TITLE>$rttitle</TITLE></HEAD>

<BODY BGCOLOR="\#$rbgcolor" TEXT="\#$rfontcolor" LINK="\#$rlinkcolor"
VLINK="\#$rpastlinkcolor" ALINK="\#$rclicklinkcolor">

<H2>$rfirstline</H2>

<br>

&copy; 2008 by <A HREF=http://www.unseelie.org/>Scott David Gray</A>.

<p>

<HR>

<P>

This program is designed to calculate average damage dealt in a round, depending on
average damage from the weapon, the base to hit, and whether or not power attack is
being used (and to what level) against various armor classes.

<P>

END_HTML

if (param()) {

print <<END_HTML2;

<HR>

A fighter who adds +$basetohit to hit with her/his primary attack who does
average base damage of $basedamage using a $powermultiplier-handed weapon,
with a crit range of $critthreat-20\$/critmult and who adds +$basetoconfirm
to confirm a crit, will do average damage according to the tables presented
below, depending on the Armor Class of her/his opponent (from $minac AC to
$maxac AC), and the number of points taken off of her/his to-hit roll for
the power attack feat:

<P>

<HR>

<P>

<PRE>

END_HTML2

```

```
print <<END_PART_2;
```

One standard attack, no criticals:

```
END_PART_2
```

```
print ("power attack\t0\t1\t2\t3\t4\t5\n");
```

```
$AC = $minac;
```

```
until ($AC > $maxac) {
```

```
    print("AC\t$AC\t");
```

```
    $powerededuct = 0;
```

```
    until ($powerededuct > 5) {
```

```
        $probhit = 20-($AC-$basetohit+$powerededuct);
```

```
        if ($probhit < 1) {
```

```
            $probhit = 1
```

```
}
```

```
        if ($probhit > 19) {
```

```
            $probhit = 19
```

```
}
```

```
        $probhit = ($probhit/20) ;
```

```
        $damage = ($probhit*($powerededuct * $powermultiplier)+$basedamage));
```

```
        $roundedfull = sprintf("%.2f", $damage);
```

```
        print ("$roundedfull\t");
```

```
        $powerededuct++;
```

```
}
```

```
    print("\n");
```

```
    $AC++;
```

```
}
```

```
print <<END_PART_3;
```

One standard attack, with criticals:

```
END_PART_3

print ("power attack\t0\t1\t2\t3\t4\t5\n");

$AC = $minac;

until ($AC > $maxac) {

    print("AC\t$AC\t");

    $powerededuct = 0;

    until ($powerededuct > 5) {

        $probhit = 20-($AC-$basetohit+$powerededuct);

        if ($probhit < 1) {

            $probhit = 1

        }

        if ($probhit > 19) {

            $probhit = 19

        }

        $critlikely = (21-$critthreat);

        if ($critlikely < 1) {

            $critlikely = 1

        }

        if ($critlikely > $probhit) {

            $critlikely = $probhit

        }

        $probhit = ($probhit/20) ;

        $damage = ($probhit*($powerededuct * $powermultiplier)+$basedamage));

        $probconfirm = 20-($AC-$basetoconfirm+$powerededuct);

        if ($probconfirm < 1) {
```

```

$probconfirm = 1
}

if ($probconfirm > 19) {
    $probconfirm = 19
}

$critconfirmed = ($probconfirm*$critlikely/400) ;
$critdamage = ($damage * ($critconfirmed) * ($critmult - 1));
$fulldamage = ($damage + $critdamage);
$roundedfull = sprintf("%.2f", $fulldamage);
print ("$roundedfull\t");
$powerededuct++;
}

print("\n");
$AC++;
}

print <<END_PART_4;

```

One full attack (two attacks), no criticals:

END_PART_4

```

print ("power attack\t0\t1\t2\t3\t4\t5\n");
$AC = $minac;
until ($AC > $maxac) {
    print("AC\t$AC\t");
    $powerededuct = 0;
    until ($powerededuct > 5) {
        $probhit = 20-($AC-$basetohit+$powerededuct);
        if ($probhit < 1) {

```

```

$probhit = 1
}

if ($probhit > 19) {
    $probhit = 19
}

$probhit = ($probhit/20) ;

$probsecondhit = 25-($AC-$basetohit+$powerededuct);

if ($probsecondhit < 1) {
    $probsecondhit = 1
}

if ($probsecondhit > 19) {
    $probsecondhit = 19
}

$probsecondhit = ($probsecondhit/20) ;

$probbothhits = ($probhit + $probsecondhit) ;

$damage = ($probbothhits*($powerededuct * $powermultiplier)+$basedamage));

$roundedfull = sprintf("% .2f", $damage);

print ("$roundedfull\t");

$powerededuct++;

}

print("\n");

$AC++;

}

print <<END_PART_5;

One full attack (two attacks), with criticals:

END_PART_5

```

```

print ("power attack\t0\t1\t2\t3\t4\t5\n");
$AC = $minac;
until ($AC > $maxac) {
    print("AC\t$AC\t");
    $powerededuct = 0;
    until ($powerededuct > 5) {
        $probhit = 20-($AC-$basetohit+$powerededuct);
        if ($probhit < 1) {
            $probhit = 1
        }
        if ($probhit > 19) {
            $probhit = 19
        }
        $probsecondhit = 25-($AC-$basetohit+$powerededuct);
        if ($probsecondhit < 1) {
            $probsecondhit = 1
        }
        if ($probsecondhit > 19) {
            $probsecondhit = 19
        }
        $critlikely = (21-$critthreat);
        if ($critlikely < 1) {
            $critlikely = 1
        }
        if ($critlikely > $probhit) {
            $critlikely = $probhit
        }
    }
}

```

```

}

$secondcritlikely = (21-$critthreat);

if ($secondcritlikely < 1) {

    $secondcritlikely = 1

}

if ($secondcritlikely > $probsecondhit) {

    $secondcritlikely = $probsecondhit

}

$probhit = ($probhit/20) ;

$damage = ($probhit*($powerdeduct * $powermultiplier)+$basedamage));

$probconfirm = 20-($AC-$basetoconfirm+$powerdeduct);

if ($probconfirm < 1) {

    $probconfirm = 1

}

if ($probconfirm > 19) {

    $probconfirm = 19

}

$probsecondconfirm = 25-($AC-$basetoconfirm+$powerdeduct);

if ($probsecondconfirm < 1) {

    $probsecondconfirm = 1

}

if ($probsecondconfirm > 19) {

    $probsecondconfirm = 19

}

$critconfirmed = ($probconfirm*$critlikely/400) ;

$critdamage = ($damage * ($critconfirmed) * ($critmult - 1));

```

```

$secondcritconfirmed = ($probsecondconfirm*$secondcritlikely/400) ;

$secondcritdamage = ($damage * ($secondcritconfirmed) * ($critmult - 1));

$fulldamage = (($damage*2) + $critdamage + $secondcritdamage);

$roundedfull = sprintf("%.2f", $fulldamage);

print ("$roundedfull\t");

$powerededuct++;

}

print("\n");

$AC++;

}

}

print <<END_HTML25;

</PRE>

END_HTML25

print <<END_HTML3;

<HR>

<P>

```

The form below allows you to submit numbers to the power attack program.
The numbers will be crunched on another machine.

<P>

<HR>

<FORM ACTION=\"\$mylocation\" METHOD=GET>

<H3>Data:</H3>

What is the character's total plus to hit with all modifiers included?
<INPUT NAME=\"basetohit\">

What is the average damage the character does with each swing?

<INPUT NAME=\\"basedamage\\">

What is the power multiplier on an attack (1 for 1-handed weapons, 2 for 2-handed weapons)?

<INPUT NAME=\\"powermultiplier\\">

What is the lowest natural roll for a crit threat?

<INPUT NAME=\\"critthreat\\">

What is the character's plus to confirm a crit, with all modifiers included?

<INPUT NAME=\\"basetoconfirm\\">

What is the damage multiplier for a critical?

<INPUT NAME=\\"critmult\\">

What is the minimum AC we should calculate?

<INPUT NAME=\\"minac\\">

What is the maximum AC we should calculate?

<INPUT NAME=\\"maxac\\">

<INPUT TYPE=\\"submit\\" VALUE=\\"Calculate\\">

</FORM>

<P>

<HR>

<P>

If you find this program to be useful, you will want to check out my

PERL Card Calculator program,

PERL General Dice

Pool Calculator program,

and

PERL Shadowrun Dice Pool Calculator program.

<P>

The source code for this program can be found here.

</FORM>

<HR>

<P>

<CENTER>

If you find this program useful, please treat me to a \$3 cup of coffee!!!


```
<form action="https://www.paypal.com/cgi-bin/webscr" method="post">
<input type="hidden" name="cmd" value="_s-xclick">
<input type="hidden" name="encrypted" value="-----BEGIN PKCS7-----
MIIHZwYJKoZIhvcNAQcEoIIHWDCB1QCAQEExggEwMIIIBLAIBADCBIDCBjjELMAkGA1UEBhMC
VVMxCzAJBgNVBAgTAkNBMRywFAYDVQQHEw1Nb3VudGFpbIBWaWV3MRQwEgYDVQQKEwt
QYXlQYWwgSW5jLjETMBEGA1UECxQKbG12ZV9jZXJ0czERMA8GA1UEAxQIbG12ZV9hcGkxHDA
aBkgqhkiG9w0BCQEWDXJlQHBheXBhbC5jb20CAQAwDQYJKoZIhvcNAQEBBQAEgYAbpE+8xC
b+nC8nwgVx1OtFerL+i2As0Ofv0yxeoYMyHXs8tbM55DsQBofEXaMT6Gsy8qbC0FJs3BSeOaX2X
Aw8P07haRNJqFV2h6AdugcNEBqaiZPaQGtLhPVz5fwapoy3O6q0OIS1q+vDFOJR5gXx4bLg4Tmv
12K3mHxGjXn1pTELMAkGBSsOAwiBQAwgeQGCSqGSiB3DQEHAUBUGghkiG9w0DBwQIW4
aUAFC1riuAgcAloE58jIeXsrgiYAgM3eLjr9OgJV2vmhKP+xBdu5cg0yfBOlYlv5sAMF/h1YqFHw9N
RPBuFhHK//fuggot956LWQiMiI9iEV7fcE5c46RBbA9shBSYQCdFe0xmY/paKTyswosXMLF341F
ZXeinCNTcrSYsqDef1v7jRtC5DUYD8MaWvHploSMBhHy3hT8/Fhrvd04fT9dQUWGdvF8hD0j9rdz
XBnODkYOr2oTI/HRyiJJwglMprbwK0bXDTsW0oggOHMIIDgzCCAuygAwIBAgIBADANBgqhki
G9w0BAQUFADCBjjELMAkGA1UEBhMCVVMxCzAJBgNVBAgTAkNBMRywFAYDVQQHEw1Nb3V
udGFpbIBWaWV3MRQwEgYDVQQKEwtQYXlQYWwgSW5jLjETMBEGA1UECxQKbG12ZV9jZXJ0c
zERMA8GA1UEAxQIbG12ZV9hcGkxHDAaBkgqhkiG9w0BCQEWDXJlQHBheXBhbC5jb20wHhcN
MDQwMjEzMTAxMzE1WhcNMzUwMjEzMTAxMzE1WjCBjjELMAkGA1UEBhMCVVMxCzAJBgNVB
AgTAkNBMRywFAYDVQQHEw1Nb3VudGFpbIBWaWV3MRQwEgYDVQQKEwtQYXlQYWwgSW5jL
jETMBEGA1UECxQKbG12ZV9jZXJ0czERMA8GA1UEAxQIbG12ZV9hcGkxHDAaBkgqhkiG9w0BC
QEWDXJlQHBheXBhbC5jb20wgZ8wDQYJKoZIhvcNAQEBBQADgY0AMIGJAoGBAMFHTt38RMx
LXJyO2SmS+Ndl72T7oKJ4u4uw+6awntALWh03PewmIJuzbALSCTS4sZoS1fKciBGoh11gIfHzylv
kdNe/hJl66/RGqrj5rFb08sAABNTzDTiqqNpJeBsYs/c2aiGozptX2RlnBktH+SUlpAajW724Nv2Wv
hif6sFAgMBAAGjge4wgeswHQYDVR0OBByEFJaffLvGbxe9WT9S1wob7BDWZJRrMIG7BgnVHSM
EgbMwgbCAFJaffLvGbxe9WT9S1wob7BDWZJRroYGUpIGRMIGOMQswCQYDVQQGEwJVUzELM
AkGA1UECBMCQ0ExFjAUBgNVBAcTDU1vdW50YWluIFZpZXcxFDASBgNVBAoTC1BheVBhbCBJ
bmMuMRMwEQYDVQQLFapsaXZIX2NlcnRzMREwDwYDVQQDFAhxaXZIX2FwaTEcMBoGCSqGS
Ib3DQEJARYNcmVAcGF5cGFsLmNvbYIBADAMBgNVHRMEBTADAQH/MA0GCSqGSiB3DQEBB
```

QUAA4GBAIFfOlaagFrI71+jq6OKidbWFSE+Q4FqROvdgIONth+8kSK / /Y/4ihuE4Ymvzn5ceE3S/i
 BSQQMjyvb+s2TWbQYDwcp129OPIbD9epdr4tJOUNiSojw7BHwYRiPh58S1xG1FgHFXwrEBb3dg
 NbMUa+u4qectsMAXpVHnD9wlyfmHMYIBmjCCAZYCAQEwgZQwgY4xCzAJBgNVBAYTAIVTMQs
 wCQYDVQQIEwJDQTEWMBQGA1UEBxMNTW91bnRhaW4gVmldzEUMBIGA1UEChMLUGF5UG
 FsIEluYy4xEzARBgNVBAAsUCmxpdmVfY2VydHMxETAPBgNVBAMUCGxpdmVfYXBpMRwwGgYJK
 oZIhvcNAQkBFg1yZUBwYXlwYWwuY29tAgEAMAkGBSsOAwIaBQCgXTAYBqkqhkiG9w0BCQMxC
 wYJKoZIhvcNAQcBMBwGCSqGSIB3DQEJBTEPFw0xMTA1MTAxODI3MzFaMCMGCSqGSIB3DQE
 JBDEWBBSA6WnTs3o1HVhqLmpjyw84Wk0zkTANBqkqhkiG9w0BAQEFAASBgFavIuaH02d+WtK
 SNTl7ec+WXzWsSA6cuh3k4riInrfNVoTlvryPF15RQLSJAEpD/ipSYOlwDyr4S6Sh9QIHGoAztyuFjw
 gEPfGtYjULS8PxIEB7w9ltfgpUe8oB+E2+/OvM1bQwEvV2GFpGni2OMKs//RUD3eXqk1g2Qw8f+
 J3----END PKCS7----
 ">
 <input type="image" src="http://www.unseelie.org/coffee.gif" border="0" name="submit"
 alt="PayPal - The safer, easier way to pay online!">

 </form>
 </CENTER>
 </BODY>
 </HTML>
 END_HTML3

CGI Shadowrun Dice Pool Calculator

```
#!/usr/bin/perl

# (c) 2000 by Scott David Gray

# Set initial HTML values

$mylocation = "http://www.unseelie.org/cgi-bin/shadow.cgi" ;

$rttitle = "Scott Gray's Shadowrun Dice Pool Calculator" ;

$rfirstline = "Scott Gray's Shadowrun Dice Pool Calculator" ;

$rbgcolor = "558855" ;

$rfontcolor = "000000" ;

$rlinkcolor = "000000" ;

$rpastlinkcolor = "224444" ;

$rclicklinkcolor = "222222" ;

# Gather raw data

use CGI qw(:standard);

$number = param("number");

$target = param("target");

$sides = 6;

$cumulate = param("cumulus");

$targeorig = $target;

# Calculate open-ended:

$targmod = $target;

until ($targmod <= 6) {

$targmod = ($targmod-6);

$sides = ($sides * 6);

}

$target = ($sides - (6 - $targmod));
```

```

# Calculate things

if ($cumulate=="1") {

$cume=" (cumulative)";

}

elsif ($cumulate=="0") {

$cume=" (non-cumulative)";

}

else {

$cume=" (both cumulative and non-cumulative)"; }

# Output

print "Content-type: text/html\nPragma: no-cache\n\n";

# HTML

print <>END_HTML;

<HTML>

<HEAD>

<META NAME="description" CONTENT="A cgi program to calculate dice pools for
the Shadowrun rpgs.">

<META NAME="keywords" CONTENT="die dice pool pools Shadowrun rpg roleplaying
game free">

<TITLE>$rttitle</TITLE></HEAD>

<BODY BGCOLOR="\#$rbgcolor\" TEXT="\#$rfontcolor\" LINK="\#$rlinkcolor\" 
VLINK="\#$rpastlinkcolor\" ALINK="\#$rclicklinkcolor\">

<H2>$rfirstline</H2>

<p>

This program is &copy; 2000 by <a href="http://www.unseelie.org/">Scott
David Gray</A>.

<p>

This program is designed to calculate probabilities when using a <a
href="http://www.fasa.com/Shadowrun">Shadowrun</a> open-ended dice pool.

```

<p>

Dice pools are used in role playing games such as [Shadowrun](http://www.fasa.com/Shadowrun). A dice pool is used by rolling a number of dice and, rather than adding them together, comparing the rolls to a *target number* and counting *how many* dice meet that target. In Shadowrun, dice are open-ended; if a die rolls a six it is added to another six sided die (which, in turn, is open ended, etc.). If all of the dice roll one, the result is a *critical failure*.

<p>

END_HTML

```
if ($number>0 && $number<1000 && $target>1) {
```

```
print <<END_HTML_2;
```

Here are the figures\$cume for \$number open-ended dice rolled against a target number of \$targetorig:

<p>

END_HTML_2

```
$an1=0;
```

```
$av=0;
```

```
# Probability of success:
```

```
$pst=($sides - $target +1) / $sides;
```

```
# Probability of failure:
```

```
$pft=($target-1) / $sides;
```

```
# Countdown from number of dice to zero
```

```
for ( $m=$number ; $m>0 ; $m-- ) {
```

```
$nm=($number-$m);
```

```
$n1=1;
```

```
for ($counter=1;$counter<($number+1);$counter++) {
```

```
$n1*=$counter;
```

```
}
```

```

$m1=1;

for ($counter=1;$counter<($m+1);$counter++) {
    $m1*=$counter;
}

$nm1=1;

for ($counter=1;$counter<($nm+1);$counter++) {
    $nm1*=$counter;
}

$ps=1;

for ($counter=1;$counter<($m+1);$counter++) {
    $ps*=$pst;
}

$pf=1;

for ($counter=1;$counter<($nm+1);$counter++) {
    $pf*=$pft;
}

# Calculate C(N, M)

$cnm=$n1/($nm1 * $m1);

# Calculate actual probability of success

$an=$cnm*$ps*$pf;

# Add to cumulative average of successes

$av+=($an*$m);

$an1+=$an;

if ($cumulate==0 || $cumulate==2) {
    if ($m > 1) {
        $val=($an*100);
}

```

```

printf("The probability of $m successes is $val");
printf("<br>")
}

if ($m < 2) {

$val=($an*100);

printf("The probability of $m success is $val");
printf("<br>")
}

if ($cumulate==1 || $cumulate==2) {

if ($m > 1) {

$val=($an1*100);

printf("The probability of $m successes or more is $val");
printf("<br>")
}

if ($m < 2) {

$val=($an1*100);

printf("The probability of $m success or more is $val");
printf("<br>")
}

if ($m==1) {

$no1=((1-$an1)*100);

printf("The probability of no successes is $no1");
$nooo=1;

for ( $ul1=$number ; $ul1>0 ; $ul1-- ) {

```

```

$nooo=($nooo/6);

}

$nooo=($nooo*100);

printf("<br>");

printf("The probability of a critical failure is $nooo");

}

}

} else {

print <<END_HTML_BAD;

```

When entering the fields, be sure that the number of dice you enter is greater than zero, and that the target number you enter is greater than 1.

```
END_HTML_BAD
```

```
}
```

```
print <<END_HTML_END;
```

```
<br>
```

```
<p>
```

and here is the form itself:

```
<br>
```

```
<p>
```

```
<FORM ACTION=\"$mylocation\" METHOD=\"get\">
```

```
<br>
```

Number of dice to be thrown: <INPUT name=\"number\">

```
<br>
```

Target number: <INPUT name=\"target\">

```
<p>
```

```
<INPUT type=\"radio\" name=\"cumulus\" value=\"0\">Not cumulative
```

```
<br>
```

```
<INPUT type="radio" name="cumulus" value="1">Cumulative  
<br>  
<INPUT type="radio" name="cumulus" value="2">Both cumulative and not  
cumulative  
  
<p>  
<INPUT type="submit" name="action" value="Press once to send">  
<INPUT type="reset">  
  
<P>  
  
<HR>
```

This program was designed (and the math calculated) by [Scott David Gray](http://www.unseelie.org/), from the [Sudbury Valley School](http://www.sudval.org).

```
<P>  
  
<HR>  
  
If you find this program to be useful, you will want to check out my  
  
<A href="http://www.unseelie.org/cgi-bin/cardco.cgi">PERL Card Calculator  
program</A>,
```

and

```
<A href="http://www.unseelie.org/cgi-bin/dicepo.cgi">PERL General Dice  
Pool Calculator program</A>.
```

```
<P>  
  
Click here for a copy of  
this program.
```

```
</FORM>
```

```
<P>
```

```
<HR>
```

```
<P>
```

```
<CENTER>
```

If you find this program useful, please treat me to a \\$3 cup of coffee!!!


```
<form action="https://www.paypal.com/cgi-bin/webscr" method="post">
<input type="hidden" name="cmd" value="_s-xclick">
<input type="hidden" name="encrypted" value="-----BEGIN PKCS7-----
MIIH ZwYJKoZIhvcNAQcEoIIHWDCB1QCAQEExggEwMIIBLAIBADCB1DCBjjELMAkGA1UEBhMC
VVMx CzAJBgNVBAgTAkNBMRy wFAYDVQQHEw1Nb3VudGFpb iBWaWV3MRQwEgYDVQQKEwt
QY XIQY WwgSW5jLjETMBEGA1UECxQKbG12ZV9jZXJ0czERMA8GA1UEAxQIbG12ZV9hcGkxHDA
aBqkqhkiG9w0BCQEWDXJ1QHBheXBhbC5jb20CAQAwDQYJKoZIhvcNAQEBBQAEgYAbpE+8xC
b+nC8nw gVx1OtFerL+i2As0Ofv0yxeoYMyHXs8tbM55DsQBo fEXaMT6Gsy8qbC0FJs3BS eOaX2X
Aw8P07haRNJqFV2h6AdugcNEBqaiZPaQGtLhPVz5fwapoy3O6q0Ois1q+vDFOJR5gXx4bLg4Tmv
12K3mHxGjXn1pTELMAkGBSsOAwi aBQA wgeQGCSqGSib3DQE HATAUBggq hkiG9w0DBwQIW4
aU AFC1riuA gca0loE58jIeXsrgiYAgM3eLjr9OgJV2v mhKP+xBdu5cg0yfBOIYlv5sAMF/h1YqFHw9N
RPBuFhHK//fuggot956LWQiMiI9iEV7fcE5c46RBbA9shBSYQCdFe0xmY/paKTyswosXMLF341F
ZXeinCNTcrSYsqDef1v7jRtC5DUYD8MaWvHpl oSMZbH y3hT8/Fhrvdo4ft9dQUWGdvF8hD0j9rdz
XBnODkY Ore2oTI/H RyilJJwg lMprbwK0bXDTsWOgggOHM IIDgzCCAuygAwIBAgIBADANBgkqhki
G9w0BAQUFADCBjjELMAkGA1UEBhMCVVMx CzAJBgNVBAgTAkNBMRy wFAYDVQQHEw1Nb3V
udGFpb iBWaWV3MRQwEgYDVQQKEwtQY XIQY WwgSW5jLjETMBEGA1UECxQKbG12ZV9jZXJ0c
zERMA8GA1UEAxQIbG12ZV9hcGkxHDAaBqkqhkiG9w0BCQEWDXJ1QHBheXBhbC5jb20wHhcN
MDQwMjEzMTAxMzE1WhcNMzUwMjEzMTAxMzE1WjCBjjELMAkGA1UEBhMCVVMx CzAJBgNVB
AgTAkNBMRy wFAYDVQQHEw1Nb3VudGFpb iBWaWV3MRQwEgYDVQQKEwtQY XIQY WwgSW5jL
jETMBEGA1UECxQKbG12ZV9jZXJ0czERMA8GA1UEAxQIbG12ZV9hcGkxHDAaBqkqhkiG9w0BC
QEWDXJ1QHBheXBhbC5jb20wgZ8wDQYJKoZIhvcNAQEBBQADgY0AMIGJAoGBAMFHT38RMx
LXJyO2SmS+Ndl72T7oKJ4u4uw+6awntALWh03PewmIJuzbALS cTS4sZoS1fKciBGoh11gIfHzylv
kdNe/hJl66/RGqrj5rFb08sAABNTzDTi qqNpJeBsYs/c2aiGozptX2RlnBktH+SUNpAajW724Nv2Wv
hif6sFAgMBAAGjge4wgeswHQYDVR0OBBYEFJaffLvGbxe9WT9S1wob7BDWZJRroYGUpIGRMIGOMQswCQYDVQQGEwJVUzELM
AkGA1UECBMCQ0ExFjAUBgNVBAcTDU1vdW50YWluIFZpZXcxFDASBgNVBAoTC1BheVBhbCBJ
bmMuMRMwEQYDVQQLFApsaXZIX2Nlc nRzMREwDwYDVQQDFAh s aXZIX2FwaTEcMBoGCSqGS
Ib3DQEJARYNcmVAcGF5cGFsLmNvbYIBADAMBgNVHRMEBTADAQH/MA0GCSqGSib3DQE
B QUAA4GBAIfOlaagFr171+jq6OKidbWFSE+Q4FqROvdgIONth+8kSK//Y/4ihuE4Ymvzn5ceE3S/i
BSQQMjyvb+s2TWbQYDwcp129OPi bD9epdr4tJOUNiSojw7BHwYRiPh58S1xGIfgHFXwrEBb3dg
NbMUa+u4qectsMAXpVHnD9wlyfmHMYIBmjCCAZYCAQEWgZQwgY4x CzAJBgNVBAYTAIVTMQs
wCQYDVQQIEwJDQTEWMBQGA1UEBxMNTW91bnRhaW4gVmldzEUMBIGA1UEChMLUGF5UG
FsIEluYy4xEzARBgNVBA s UCrm pdmVfY2VydHMxETAPB gNV BAMUCGxpdmVfYXBpMRwwGgYJK
oZIhvcNAQkBFg1yZUBwYXlwYWWuY29tAgEAMAkGBSsOAwi aBQCgXTAYBqkqhkiG9w0BCQMx
c wYJKoZIhvcNAQcBMBwGCSqGSib3DQEJBTEPFw0xMTA1MTAxODI3MzFaMCMGCSqGSib3DQE
JBDEWBBSA6WnTs3o1HVhqlmpjyw84Wk0zkTANBqkqhkiG9w0BAQEF AASBgFavIuaH02d+WtK
SNTI7ec+WXzWsSA6cu h3k4riInrfNV oTIVryPF15RQLSJ AepD/ipsYOlwDyr4S6Sh9QIHGoAztyuFjw
gEPfGtYjULS8PxIEB7w9ltfgpUe8oB+E2+/OvM1bQwEvV2GFpGni2OMKs//RUD3eXqk1g2Qw8f+
J3-----END PKCS7-----
">
<input type="image" src="http://www.unseelie.org/coffee.gif" border="0" name="submit"
alt="PayPal - The safer, easier way to pay online!">

</form>
</CENTER>
```

</BODY>

</HTML>

END_HTML_END