

PROBLEM #1

Normal display, without invalid input.

PROBLEM1.cpp

```
C:\Windows\system32\cmd.exe
*****
*                               Welcome to Callendar Pro v1.0!                               *
* Callendar Pro enables you to print out a callendar page of a month in a *
* year of your coice-given the first day of year,month number,and year. *
*****

Please enter in the year: 2008

Please enter in the first day of the year<1=M,2=T,3=W,4=R,5=F,6=Sa,7=Su>: 2

Enter a month
<1=Jan,2=Feb,3=Mar,4=Apr,5=May,6=Jun,7=Jul,8=Aug,9=Sep,10=Oct,11=Nov,12=Dec>: 12

                December  2008

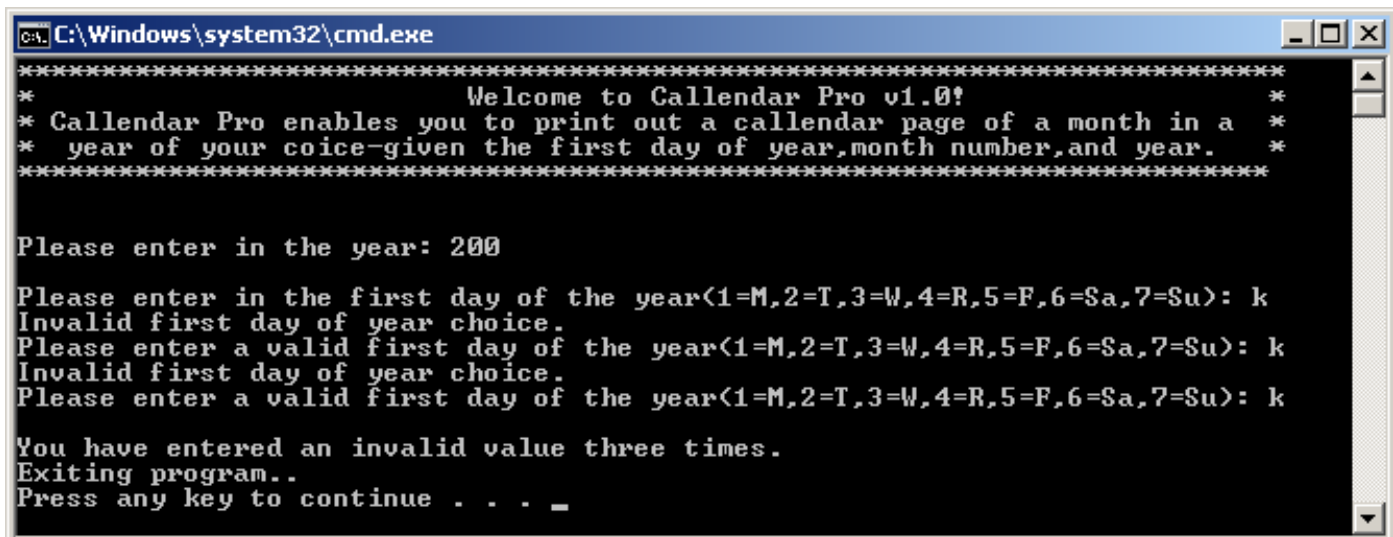
Sun  Mon  Tus  Wed  Thu  Fri  Sat
  7   8   9   10  11  12  13
 14  15  16  17  18  19  20
 21  22  23  24  25  26  27
 28  29  30  31

Press any key to continue . . . _
```

PROBLEM #1

Invalid input, more than the limited three times.

PROBLEM1.cpp



```
C:\Windows\system32\cmd.exe
*****
*                               Welcome to Callendar Pro v1.0!                               *
* Callendar Pro enables you to print out a callendar page of a month in a *
* year of your coice-given the first day of year,month number,and year.  *
*****

Please enter in the year: 200

Please enter in the first day of the year<1=M,2=T,3=W,4=R,5=F,6=Sa,7=Su>: k
Invalid first day of year choice.
Please enter a valid first day of the year<1=M,2=T,3=W,4=R,5=F,6=Sa,7=Su>: k
Invalid first day of year choice.
Please enter a valid first day of the year<1=M,2=T,3=W,4=R,5=F,6=Sa,7=Su>: k

You have entered an invalid value three times.
Exiting program..
Press any key to continue . . . _
```

PROBLEM #2

Normal display, without invalid input.

PROBLEM2.cpp

```
C:\Windows\system32\cmd.exe
Enter principal: 60000
Enter monthly repayment: 2000
Enter monthly interest rate (%): 0.8
  Month      Repayment      Remaining
-----
   1         2000.00        58480.00
   2         2000.00        56947.84
   3         2000.00        55403.42
   4         2000.00        53846.65
   5         2000.00        52277.42
   6         2000.00        50695.64
   7         2000.00        49101.21
   8         2000.00        47494.02
   9         2000.00        45873.97
  10         2000.00        44240.96
  11         2000.00        42594.89
  12         2000.00        40935.65
  13         2000.00        39263.13
  14         2000.00        37577.24
  15         2000.00        35877.86
  16         2000.00        34164.88
  17         2000.00        32438.20
  18         2000.00        30697.70
  19         2000.00        28943.29
  20         2000.00        27174.83
  21         2000.00        25392.23
  22         2000.00        23595.37
  23         2000.00        21784.13
  24         2000.00        19958.40
  25         2000.00        18118.07
  26         2000.00        16263.02
  27         2000.00        14393.12
  28         2000.00        12508.27
  29         2000.00        10608.33
  30         2000.00         8693.20
  31         2000.00         6762.74
  32         2000.00         4816.85
  33         2000.00         2855.38
  34         2000.00          878.22
  35          885.25          0.00

At this rate it will take you 2 years and 11 months to pay of the mortgage.
Press any key to continue . . . _
```

PROBLEM #2

Input validation example.

PROBLEM3.cpp

```
C:\Windows\system32\cmd.exe
Enter principal: r
Invalid principal!
Please enter a valid principal: 60000
Enter monthly repayment: fkkvf
Invalid monthly payment!
Please enter a valid monthly payment: 2000
Enter monthly interest rate (%): kkdkd
Invalid interest rate!
Please enter a valid interest rate(%): -1
Invalid interest rate!
Please enter a valid interest rate(%): 0.8
  Month      Repayment      Remaining
-----
   1         2000.00       58480.00
   2         2000.00       56947.84
   3         2000.00       55403.42
   4         2000.00       53846.65
   5         2000.00       52277.42
   6         2000.00       50695.64
   7         2000.00       49101.21
   8         2000.00       47494.02
   9         2000.00       45873.97
  10         2000.00       44240.96
  11         2000.00       42594.89
  12         2000.00       40935.65
  13         2000.00       39263.13
  14         2000.00       37577.24
  15         2000.00       35877.86
  16         2000.00       34164.88
  17         2000.00       32438.20
  18         2000.00       30697.70
  19         2000.00       28943.29
  20         2000.00       27174.83
  21         2000.00       25392.23
  22         2000.00       23595.37
  23         2000.00       21784.13
  24         2000.00       19958.40
  25         2000.00       18118.07
  26         2000.00       16263.02
  27         2000.00       14393.12
  28         2000.00       12508.27
  29         2000.00       10608.33
  30         2000.00       8693.20
  31         2000.00       6762.74
  32         2000.00       4816.85
  33         2000.00       2855.38
  34         2000.00        878.22
  35          885.25         0.00

At this rate it will take you 2 years and 11 months to pay of the mortgage.
Press any key to continue . . . _
```

PROBLEM #3

Standard display.

PROBLEM3.cpp

```
C:\Windows\system32\cmd.exe

-----FIRST 100 EMIRPS-----

  2    3    5    7   11   13   17   31   37   71
 73   79   97  101  107  113  131  149  151  157
167  179  181  191  199  311  313  337  347  353
359  373  383  389  701  709  727  733  739  743
751  757  761  769  787  797  907  919  929  937
941  953  967  971  983  991 1009 1021 1031 1033
1061 1069 1091 1097 1103 1109 1151 1153 1181 1193
1201 1213 1217 1223 1229 1231 1237 1249 1259 1279
1283 1301 1321 1381 1399 1409 1429 1439 1453 1471
1487 1499 1511 1523 1559 1583 1597 1601 1619 1657

Press any key to continue . . .
```