Basic Computer Programming

Midterm Assignments

Electrical & Electronics Engineering Chung-Ang University

Problem #1 (20 points)

- Make a program that prints multiples of 6 and multiples 9 between 1 and 1000.
- However, multiples of 54 must not be included in the results.
- Use the 'Problem_1.c' to implement the program.
 - Your codes must be located between "Your codes start" and "Your codes end".
 - No other code should be changed.

Problem #1 Expected Outputs

6 9 12 18 24 27 30 36 42 45 48 60 63 66 72 78 81 84 90 96 99 102 114 117 120 126 132 135 138 144 150 153 156 168 171 174 180 186 189 192 198 204 207 210 222 225 228 234 240 243 246 252 258 261 264 276 279 282 288 294 297 300 306 312 315 318 330 3 336 342 348 351 354 360 366 369 372 384 387 390 396 402 405 408 414 420 423 426 438 441 444 450 456 459 462 468 474 477 480 492 495 498 504 510 513 516 522 528 5 31 534 546 549 552 558 564 567 570 576 582 585 588 600 603 606 612 618 621 624 630 636 639 642 654 657 660 666 672 675 678 684 690 693 696 708 711 714 720 726 729 7 32 738 744 747 750 762 765 768 774 780 783 786 792 798 801 804 816 819 822 828 834 837 840 846 852 855 858 870 873 876 882 888 891 894 900 906 909 912 924 927 930 9 36 942 945 948 954 960 963 966 978 981 984 990 996 999

Problem #2 (30 points)

- Make a program that counts the number of upper and lower case characters among five input characters.
- A user can enter five characters and the program counts the number of upper and lower case characters.
- Hint: Use one of the characteristics of ASCII codes.
- Use the 'Problem_2.c' to implement the program.
 - Your codes must be located between "Your codes start" and "Your codes end".
 - No other code should be changed.

Problem #2 Examples of Expected Outputs



Problem #3 (50 points)

- Make a program that prints prime numbers between two input integers.
- The program prints all prime numbers between the two inputs.
- The program must operate even if the first input is greater than the second input.
- Use the 'Problem_3.c' to implement the program.
 - Your codes must be located between "Your codes start" and "Your codes end".
 - No other code should be changed.

Problem #3 Examples of Expected Outputs

```
Microsoft Visual Studio 디버그 콘솔
                                                                                                Enter a positive integer:
Enter another positive integer:
30
Prime numbers between 10 and 30:
             23 29
Enter a positive integer:
3000
Enter another positive integer:
100
```

Submission files

- The submission files should be a '.zip' files containing three '.c' files.
- The zip file should be uploaded on the "Midterm assignments" in "과제 및 평가".
- An example of the submission file.

