組合語言
第一次上機考

20191015

Prime Generator

Input:

3 unsigned integers M, N, T

Output:

All prime numbers between X and Y (included) and the number of primes, where X = min(M, N) and Y = max(M, N). Print T primes for each line.

Sample Input/Output

37 11 5	11 13 17 19 23 29 31 37 8

評分與扣分標準 (1)

85:

1. C/C++ main() calls x86 Assembly asmMain procedure.
2. asmMain procedure calls scanf() and printf().
3. Write C/C++ isPrime() function using sqrt() function.

   扣 10 分 without using sqrt().
4. 扣 10 分without printing k primes for each line.
5. 扣 10 分 without printing the number of primes.
6. 扣 10 分 if you include irvine32.inc in your assembly code.

評分與扣分標準 (2)

100:

Write a x86 Assembly asmIsPrime procedure using floating point instructions to compute the square root of a number.

扣 5 point without using floating point instructions.