

**HOWMANYSAFEPRIME and HOWMANYGEN: CMSC 456**  
**Sample Inputs/Outputs and Testing Instructions**

1. HOWMANYSAFEPRIME

Sample Input:

1000

Sample Output:

25

Due to how the TESTPRIME algorithm works, it's possible to get slightly varying results especially with larger numbers, but the auto-grader is designed with this in mind.

2. HOWMANYGEN

Sample Input:

47

Sample Output:

22

Testing Instructions:

1. To test HOWMANYSAFEPRIME:

```
python3 safeprimes.py 1000 > out.txt
```

and see that your program's generated out.txt contains only 25.

2. To test HOWMANYGEN:

```
python3 generators.py 47 > out.txt
```

and see that your program's generated out.txt contains only 22.

You may need to modify the filename in these commands (safeprimes.py or generators.py) to whatever you have named yours. These examples are in Python, so if you're testing another language, change "python3" to the appropriate command ("javac" for Java, "ruby" for Ruby, "a.out" for C and C++, etc).

Note: These examples are with relatively small numbers.