

# Primes FR Answer Key && Grading Rubric

"It's over prime..."



# Part (a)

```
private int nextPrimeAfter(int p)
{
    int toCheck = p+1;
    while(!isPrime(toCheck))
        toCheck++;
    return toCheck;
}
```

# Part (b)

```
private int nextPrime()
{
    int answer = nextPrime;
    nextPrime = nextPrimeAfter(answer);
    return answer;
}
```

# Part (c)

```
public static void main(String[] args)
{
    PrimeGenerator pg = new PrimeGenerator();
    int count = 0;
    while(pg.nextPrime() < 100000)
        count++;
    System.out.println(count);
}
```