```
class Primes {
                                                                                                                                                                                                                                                                                                                                               };int main() {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                private:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    public:
                                                                                                                                                                                                                                                                                                                                                                                     volatile int primes[25000];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   bool isPrimeDivisible(int candidate) {
  for (int i = 1; i < prime_count; ++i) {</pre>
printf("%d\n", p.getPrime(p.getPrimeCount()-1));
                                                                                                                                                                                                                                                                                                                                                                                                                          volatile int prime_count;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        bool isDivisibe(int i, int by) { return (i % by) == 0; }
                                                                                                                                                                                                                                 while (p.getPrimeCount() < 25000) {
                                                                                                                                                                                                                                                                                                           Primes p;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               void addPrime(int i) { primes[prime_count++] = i; }
                                                                                                                                                                                                                                                                       int c = 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      int getPrime(int i) const { return primes[i]; }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             int getPrimeCount() const { return prime_count; }
                                                                              C++;
                                                                                                                                                                                           if (!p.isPrimeDivisible(c)) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              return false;
                                                                                                                                                    p.addPrime(c);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   if (isDivisibe(candidate, primes[i])) return true;
```