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class Primes {
public:
    int getPrimeCount() const { return prime_count; }
    int getPrime(int i) const { return primes[i]; }
    void addPrime(int i) { primes[prime_count++] = i; }

    bool isDivisible(int i, int by) { return (i % by) == 0; }

    bool isPrimeDivisible(int candidate) {
        for (int i = 1; i < prime_count; ++i) {
            if (isDivisible(candidate, primes[i])) return true;
        }
        return false;
    }

private:
    volatile int prime_count;
    volatile int primes[25000];
};

int main() {
    Primes p;
    int c = 1;
    while (p.getPrimeCount() < 25000) {
        if (!p.isPrimeDivisible(c)) {
            p.addPrime(c);
        }
        c++;
    }
    printf("%d\n", p.getPrime(p.getPrimeCount()-1));
}

```