### 欧拉筛法

#include <cstdio>  
const int maxn = 5e8;  
int seek = 0;  
int prime[maxn];  
bool sifter[maxn];  
//bool\* sifter = (bool \*)memset(sifter, 0, sizeof(sifter));  
  
void sievePrime() {  
 for (int i = 2; i <= maxn; i++) {  
 if (sifter[i] == false)  
 prime[seek++] = i;  
  
 for (int j = 0; j < seek; j++) {  
 if (i \* prime[j] > maxn) break;  
  
 sifter[i \* prime[j]] = true;  
  
 if (!(i % prime[j])) break;  
 }  
 }  
}  
  
int main()  
{  
 sievePrime();  
 for (int i = 0; i < seek; i++)  
 printf("%d ", prime[i]);  
 return 0;  
}