```
#include <iostream>
1
    // Решето эратосфена
3
5
    using namespace std;
6
    int main()
7
8
9
         const int size = 500;
10
         int a[size];
11
         for (int i = 0; i < size; i++)
12
13
             a[i] = i + 1;
14
15
16
17
         for (int i = 1; i < size / 2; i++)</pre>
18
             if (a[i] != 0)
19
20
                  for (int j = i + a[i]; j < size; j += a[i])</pre>
21
22
                  {
                      a[j] = 0;
23
24
                  }
25
             }
         }
26
27
28
         for (int i = 0; i < size; i++)</pre>
29
             if (a[i] != 0)
30
31
                  cout << a[i] << " ";
32
         }
33
         cout << endl;</pre>
34
35
         return 0;
36
    }
37
38
```