

Elite-S016-AlgorithmsSolved Challenges **0/2**[Back To Challenges List](#)**Print Prime Numbers from 2 to N****ID:11088 Solved By 724 Users**

The program must accept an integer **N** as the input. The program must print all the prime numbers from 2 to N (inclusive of N) as output.

Boundary Condition(s): $2 \leq N \leq 999999$ **Input Format:**

The first line contains the value of N.

Output Format:

The first line contains all the prime numbers from 2 to N.

Example Input/Output 1:

Input:

11

Output:

2 3 5 7 11

Example Input/Output 2:

Input:

120

Output:

2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89 97 101 103 107 109 113

Max Execution Time Limit: 3000 millisecs

C (gcc 8.x)



Reset

```
1  #include<stdio.h>
2  #include<stdlib.h>
3
4  int main()
5  {
6      int N;
7      scanf("%d", &N);
8
9      short primearr[N+1];
10
11     for(int num=2;num<=N;num++)
12         primearr[num] = 1;
13
14     for(int val=2;val*val<=N;val++)
15     {
16         if(primearr[val]==1)
17         {
18             for(int num=val*val;num<=N;num = num+val)
19                 {
20                     primearr[num] = 0;
21                 }
22         }
23     }
24
25     for(int num=2;num<=N;num++)
26     {
27         if(primearr[num] == 1)
28             printf("%d ",num);
29     }
30 }
```

Code did not pass the execution

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Your Program Output:

2 3 5 7

Save

Run

☐ Run with a custom test case (Input/Output)