In [1]:
```
e = 1

while (1 + e != 1) :
    e = e / 2

print(e,"e is same as one now")
```

```
1.1102230246251565e-16 e is same as one now
```

1 + 1 , 2 + 1 , 3 + 2, 5 + 3

In [16]:
```
a = 1
b = 1
i = 0
max_range_s = input("Value of max fibonnaci sequence")
max_range = int (max_range_s)
while i < max_range :
    tmp_val = b
    b = a + b
    a = tmp_val
    i = i + 1
    print(a)
```

```
1
2
3
5
8
13
21
34
55
89
144
233
377
610
987
```

In [59]:
```
n_s = input("Value of n")
n = int(n_s)

L = list(range(n + 1))
L[1] = 0
p = 2
while (p **2 <= n) :
    for i in range(p**2, n + 1, p):
        # print(L[i])
        L[i] = 0
    q = p + 1
    for i in range(len(L)):
        if (L[i] != 0 and L[i] > p):
            q = L[i]
            # print(q)
            break
```

```
    p = q
for i in range(len(L)):
    if (L[i] != 0) :
        print(i)
```

```
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
```

In [ ]: