In [1]:
```
for i in range (2000, 3201):
    if (i%7==0) and (i%5!=0):
        print(i,end="*")
```

```
2002*2009*2016*2023*2037*2044*2051*2058*2072*2079*2086*2093*2107*2114*2
121*2128*2142*2149*2156*2163*2177*2184*2191*2198*2212*2219*2226*2233*22
47*2254*2261*2268*2282*2289*2296*2303*2317*2324*2331*2338*2352*2359*236
6*2373*2387*2394*2401*2408*2422*2429*2436*2443*2457*2464*2471*2478*2492
*2499*2506*2513*2527*2534*2541*2548*2562*2569*2576*2583*2597*2604*2611*
2618*2632*2639*2646*2653*2667*2674*2681*2688*2702*2709*2716*2723*2737*2
744*2751*2758*2772*2779*2786*2793*2807*2814*2821*2828*2842*2849*2856*28
63*2877*2884*2891*2898*2912*2919*2926*2933*2947*2954*2961*2968*2982*298
9*2996*3003*3017*3024*3031*3038*3052*3059*3066*3073*3087*3094*3101*3108
*3122*3129*3136*3143*3157*3164*3171*3178*3192*3199*
```

In [2]:
```
n=int(input())
fact=1
for i in range (1,n+1):
    fact= fact*i
print (fact)
```

```
8
40320
```

In [3]:
```
n=int(input())
nombres={i:i*i for i in range (1,n+1)}
print(nombres)
```

```
8
{1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64}
```

In [4]:
```
def missing_char(str,n):
    front = str[:n]
    back= str [n+1:]
    print(front+back)
```

```
print("missing_char('kitten',1) : " )
missing_char("kitten",1)
print("missing_char('kitten',0) : " )
missing_char('kitten',0)
print("missing_char('kitten',4) :")
missing_char("kitten",4)
```

```
missing_char('kitten',1) :
ktten
missing_char('kitten',0) :
itten
missing_char('kitten',4) :
kittn
```

In [5]:
```
import numpy as np
B=np.array([[0,1],[2,3],[4,5]]).tolist()
print(B)
```

```
[[0, 1], [2, 3], [4, 5]]
```

In [8]:
```
import numpy as np
A=np.array([0,1,2])
B=np.array([2,1,0])
print("Tableau 1:",A)
print("Tableau 2:",B)
print(("Matrice de covariance:"),np.cov(A,B))
```

```
Tableau 1: [0 1 2]
Tableau 2: [2 1 0]
Matrice de covariance: [[ 1. -1.]
 [-1.  1.]]
```

In [11]:
```
import math

numbers = input("Provide D: ")
numbers = numbers.split(',')

result_list = []
```

```
for D in numbers:
    Q = round(math.sqrt(2 * 50 * int(D) / 30))
    result_list.append(Q)

print(result_list)
```

```
Provide D: 100,150,180
[18, 22, 24]
```

In [ ]: