**Problem statement** Send feedback

You are given an integer ***'n'***.

Your task is to return a sorted array (in increasing order) containing all the factorial numbers which are less than or equal to 'n'.

The factorial number is a factorial of a positive integer, like 24 is a factorial number, as it is a factorial of 4.

**Note:**

In the output, you will see the array returned by you.

**Example:**

```
Input: 'n' = 7

Output: 1 2 6

Explanation: Factorial numbers less than or equal to '7' are '1', '2', and '6'.
```

**Detailed explanation** ( Input/output format, Notes, Images )

**Sample Input 1:**

```
7
```

**Sample Output 1 :**

```
1 2 6
```

**Explanation Of Sample Input 1:**

```
Input: 'n' = 7

Output: 1 2 6

Explanation: Factorial numbers less than or equal to '7' are '1', '2', and '6'.
```

**Sample Input 2:**

```
2
```

**Sample Output 2:**

```
1 2
```

**Explanation Of Sample Input 2:**

```
Input: 'n' = 2

Output: 1 2

Explanation: Factorial numbers less than or equal to '2' are '1' and '2'.
```

**Expected Time Complexity:**

The expected time complexity is O(m), where 'm' is the number of factorial numbers which are less than or equal to 'n'.

**Expected Space Complexity:**

The expected space complexity is O(m), where ‘m’ is the number of factorial numbers which are less than or equal to ‘n’.

**Constraints:**

1 <= n <= 10^18

Time Limit: 1-sec