Question **1**

Correct

Marked out of 10.00

Chirag is a pure Desi boy. And his one and only dream is to meet Santa Claus. He decided to decorate a Christmas tree for Santa on coming Christmas. Chirag made an interesting Christmas tree that grows day by day.

The Christmas tree is comprised of the following:

· Parts

· Stand

Each Part is further comprised of Branches. Branches are comprised of Leaves.

How the tree appears as a function of days should be understood. Basis that print the tree as it appears on the given day. Below are the rules that govern how the tree appears on a given day.

Write a program to generate such a Christmas tree whose input is number of days.

Rules:

1. If tree is one-day old, you cannot grow. Print a message "You cannot generate Christmas tree".

2. Tree will die after 20 days; it should give a message "Tree is no more".

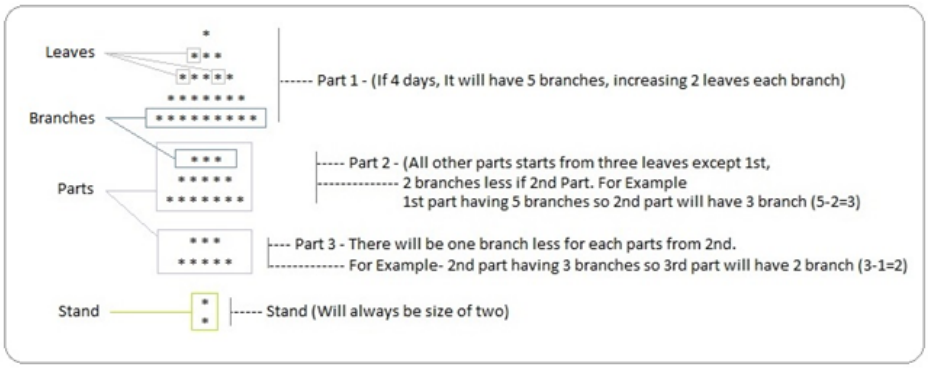
3. Tree will have one part less than the number of days. E.g.

- On 2nd day tree will have 1 part and one stand.
- On 3rd day tree will have 2 parts and one stand.
- On 4th day tree will have 3 parts and one stand and so on.

4. Top-most part will be the widest and bottom-most part will be the narrowest.
5. Difference in number of branches between top-most and second from top will be 2.

6. Difference in number of branches between second from top and bottom-most part will be 1.

Below is an illustration of how the tree looks like on 4th day



Input Format:

First line of input contains k - the number of inputs

The next k lines denote the number of days N

Output Format:

Print Christmas Tree for given N

OR

Print "You cannot generate Christmas tree" if N <= 1

OR

Print "Tree is no more" if N > 20

Constraints:

0<= N <=20

Example:

Input:

2

1

2

Output:

```
You cannot generate Christmas tree
  *
 ***
*****
  *
  *
```

Input

```
5
0
1
2
1000
5
```

Expected Output

```
You cannot generate Christmas tree
You cannot generate Christmas tree
  *
 ***
*****
  *
  *
Tree is no more
     *
    ***
   *****
  *******
 *********
***********
    ***
   *****
  *******
 *********
    ***
   *****
  *******
    ***
   *****
     *
     *
```

For example:

Input	Result

2
1
2
	You cannot generate Christmas tree
	  *
	 ***
	*****
	  *
	  *

5
0
1
2
1000
5
	You cannot generate Christmas tree
	You cannot generate Christmas tree
	  *
	 ***
	*****
	  *
	  *
	Tree is no more
	  *
	 ***
	 *****
	 *******
	*********
	***********
	 ***
	 *****
	 *******
	*********
	 ***
	 *****
	 *******
	 ***
	 *****
	  *
	  *

Answer: (penalty regime: 0 %)

```
for i in range(int(input())):
    c=int(input())
    if(c<=1):
        print("You cannot generate Christmas tree")
    elif(c>20):
        print("Tree is no more")
    else:
        for i in range(c+1):
            for j in range(i,c):
                print(" ",end="")
            for k in range(i):
                print("*",end="")
            for l in range(i+1):
                print("*",end="")
            print()
        t=c+1-2
        p=t
        if(c>2):
            while(t>1):
                for i in range(t):
                    for j in range(i,p):
                        print(" ",end='')
                    for k in range(i+2):
                        print("*",end="")
                    for l in range(i+1):
                        print("*",end="")
                    print()
                t=t-1
        for i in range(2):
            for j in range(p+1):
                print(" ",end='')
            for j in range(1):
                print("*")
```

	Input	Expected	Got	

✔	2
	1
	2
		You cannot generate Christmas tree
		  *
		 ***
		*****
		  *
		  *
			You cannot generate Christmas tree
			  *
			 ***
			*****
			  *
			  *
				✔

✔	5
	0
	1
	2
	1000
	5
		You cannot generate Christmas tree
		You cannot generate Christmas tree
		  *
		 ***
		*****
		  *
		  *
		Tree is no more
		  *
		 ***
		 *****
		 *******
		*********
		***********
		 ***
		 *****
		 *******
		*********
		 ***
		 *****
		 *******
		 ***
		 *****
		  *
		  *
			You cannot generate Christmas tree
			You cannot generate Christmas tree
			  *
			 ***
			*****
			  *
			  *
			Tree is no more
			  *
			 ***
			 *****
			 *******
			*********
			***********
			 ***
			 *****
			 *******
			*********
			 ***
			 *****
			 *******
			 ***
			 *****
			  *
			  *
				✔

Passed all tests! ✔