Câu hỏi **2**

Đúng

Give a positive integer x, implement recursive function

```
void printHailstone(int number){}
```

to print the Hailstone Sequence of a given number upto 1 (no space at the end).

Hailstone Sequences follow these rules:

- If a number is even, divide it by 2
- If a number is odd, multiply it by 3 and add 1.

Example:

```
If number = 5. 5 is odd number so next number is 5*3 + 1 = 16. 16 is even number so next number is 16/2 = 8...
Finally, we get Hailstone sequence: 5 16 8 4 2 1.
```

You can find more information at: https://diendantoanhoc.net/topic/89145-d%C3%A3y-s%E1%BB%91-hailstone/

Note: Please note that you can't using key work for, while, goto (even in variable names, comment).

You can implement other recursive functions if needed.

For this exercise, we have #include <iostream> and using namespace std;

For example:

Test	Result
printHailstone(32);	32 16 8 4 2 1

Answer: (penalty regime: 0 %)

```
void printHailstone(int number){
    if(number==1)
    {
        cout<<number;
        return;
    }
    if(number%2==0) {
        cout<<number<<" ";
        printHailstone(number/2);
    }
    else{
        cout<<number<<" ";
        printHailstone(number*3+1);
    }
}
```

Chọn

	Test	Expected	Got	
✓	printHailstone(32);	32 16 8 4 2 1	32 16 8 4 2 1	✓

	Test	Expected	Got	
✓	`printHailstone(23);`	`23 70 35 106 53 160 80 40 20 10 5 16 8 4 2 1`	`23 70 35 106 53 160 80 40 20 10 5 16 8 4 2 1`	✓
✓	`printHailstone(13);`	`13 40 20 10 5 16 8 4 2 1`	`13 40 20 10 5 16 8 4 2 1`	✓
✓	`printHailstone(12);`	`12 6 3 10 5 16 8 4 2 1`	`12 6 3 10 5 16 8 4 2 1`	✓
✓	`printHailstone(22);` `cout << "a";`	`22 11 34 17 52 26 13 40 20 10 5 16 8 4 2 1a`	`22 11 34 17 52 26 13 40 20 10 5 16 8 4 2 1a`	✓

Passed all tests! ✓