

BUBT INTRA-UNIVERSITY PROGRAMMING CONTEST SPRING 2017(DIVISION 2)

Finished

THE CONTEST HAS ENDED.

# B. The King of Rupnagar

Score: 1  
CPU: 2s  
Memory: 511MB

Once upon a time there lived a king in the land of Rupnagar. He was very powerful and kind ruler. He was very intelligent and had a mysterious chamber below his palace. Some say, he had huge amount of gold and those are stacked inside that chamber. Researchers have recently found the remaining of the palace. They found a terracotta describing the mighty king of Rupnagar and his wealth. He had 12 queens and 30 children. But it also said that his father had 24 queens and 60 children, his grandfather had 48 queens and 120 children and so on!

## INPUT

The first line of input contains an integer T ( $T \leq 10$ ) the number of test cases. On each case you will be provided the ancestor number 0 to 10. (Consider the king as number 0, his father as number 1, his grandfather as number 2 and so on).

## OUTPUT

For each test case, you will have to print the number of queens and children the corresponding king had, separated by a single space.

## Sample

Input	Output
3	384 960
5	48 120
2	12 30
0	

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