## **Problem 1. Christmas Spirit**

It's time to get in a Christmas mood. You have to decorate the house in time for the big event, but you have limited days to do so.

You will receive allowed quantity for one type of decoration and days left until Christmas day to decorate the house.

There are 4 types of decorations and each piece costs a price

- Ornament Set 2\$ a piece
- Tree Skirt 5\$ a piece
- Tree Garlands 3\$ a piece
- Tree Lights 15\$ a piece

Every second day you buy an Ornament Set quantity of times and increase your Christmas spirit by 5.

Every third day you buy Tree Skirts and Tree Garlands (both quantity of times) and increase your spirit by 13.

Every **fifth day** you buy **Tree Lights** quantity of times and **increase** your Christmas spirit by **17**. If you have bought Tree Skirts and Tree Garlands at the **same day** you **additionally increase** your spirit by **30**.

Every **tenth day** you **lose 20 spirit**, because your cat ruins all tree decorations and you have to rebuild the tree and buy **one** piece of tree **skirt**, **garlands** and **lights**. That is why you are forced to **increase** the allowed **quantity with 2** at the **beginning** of every **eleventh day**.

Also if the **last day** is a **tenth day** the cat decides to demolish even more and ruins the Christmas turkey and you **lose** additional **30 spirit**.

At the end you must print the total cost and the gained spirit.

## **Input / Constraints**

The input will consist of exactly 2 lines:

- quantity integer in range [1...100]
- days integer in range [1...100]

## **Output**

At the end print the **total cost** and the total gained **spirit** in the following format:

"Total cost: {budget}"

"Total spirit: {totalSpirit}"















## **Examples**

Input	Output
1	Total cost: 37
7	Total spirit: 58
Input	Output
Input 3	Output  Total cost: 558















