

Problem 2 – Sum Cards

Nakov is keen card player and he is now learning a new game. The game uses a **standard deck of 52 cards**. The card faces are: **2, 3, 4, 5, 6, 7, 8, 9, 10, J, Q, K** and **A**. The cards suits are denoted by the letters **S** (spades), **H** (hearts), **D** (diamonds) and **C** (clubs). The player is given a hand of cards and he needs to **count their sum**. Card **values** are the following: 2 -> 2, 3 -> 3, 4 -> 4, 5 -> 5, 6 -> 6, 7 -> 7, 8 -> 8, 9 -> 9, 10 -> 10, J -> 12, Q -> 13, K -> 14, A -> 15 (the card suits are ignored). When two or more cards of the same face **come sequentially**, their values are **counted twice**.

For example, the hand "**2C 2H 2D AS 10H 10C 2S KD**" has value $(2 + 2 + 2) * 2 + 15 + (10 + 10) * 2 + 2 + 14 = 83$.

Write a program that **takes a hand of cards and counts their sum**.

Input

The input comes from the console as a **single line, holding the hand of cards**. Cards are separated by a space.

The input data will always be valid and in the format described. There is no need to check it explicitly.

Output

Print at the console a single number: the **value of the hand**.

Constraints

- The **count** the cards will be in the range [1...99].
- **Card faces** will be one of the following values: [2, 3, 4, 5, 6, 7, 8, 9, 10, J, Q, K, A].
- **Card suits** will be one of the following values: [S, H, D, C].
- Time limit: 0.3 sec. Memory limit: 16 MB.

Examples

Input	Output
2C 2H 2D AS 10H 10C 2S KD	83
AS KH 10C	39
2S 2C 2D 2H	16
AS 10C KS KH KD 9H JH QS 3H QD QH 8S 10D 10S 7C JD	265