

[Instructions](#)[Scoreboard](#)[View my score](#)[Friends](#)[Everyone](#)**Problems**

- 20: Beautiful strings
- 35: Balanced Smileys
- 45: Find the Min

Time remaining in this round:

15:49:36

Facebook Hacker Cup 2013 Qualification Round

The second test case in the Beautiful Strings problem is "Good luck in the Facebook Hacker Cup this year in some browsers."

"Kivuto Secure Download Manager", a program used to distribute software, interferes with downloading recommend disabling it, uninstalling it, or using a different computer to participate in the Hacker Cup.

Beautiful strings

Last valid submission at 8 minutes ago [\[details\]](#)[Download Input File](#)**Time Expired**

When John was a little kid he didn't have much to do. There was no internet, no Facebook, and no programming... he evaluated the beauty of strings in a quest to discover the most beautiful string in the world.

Given a string s , little Johnny defined the beauty of the string as the sum of the beauty of the letters in it.

The beauty of each letter is an integer between 1 and 26, inclusive, and no two letters have the same beauty. Uppercase letters are uppercase or lowercase, so that doesn't affect the beauty of a letter. (Uppercase 'F' is exactly the same as lowercase 'f').

You're a student writing a report on the youth of this famous hacker. You found the string that Johnny called the most beautiful. What is the maximum possible beauty of this string?

Input

The input file consists of a single integer m followed by m lines.

Output

Your output should consist of, for each test case, a line containing the string "Case # x : y " where x is the input file, 2 being the second, etc.) and y is the maximum beauty for that test case.

Constraints

 $5 \leq m \leq 50$ $2 \leq \text{length of } s \leq 500$

Example input

```
5
ABbCcc
Good luck in the Facebook Hacker Cup this year!
Ignore punctuation, please :)
Sometimes test cases are hard to make up.
So I just go consult Professor Dalves
```

```
Case #1: 152
Case #2: 754
Case #3: 491
Case #4: 729
Case #5: 646
```

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