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## GOCC18: Google's Online Coding Challenge

- Difficulty Level : [Medium](#)
- Last Updated : 16 Aug, 2021

The **GOCC18** was held on September 26, 2020, for **Google SWE New Grad 2021** (India). There were 2 coding questions to attempt, with a 60-minute time limit for completion. Below is the first question of the challenge:

**Question1:** The cost of a string

Your task is to create a string **S** considering lowercase English alphabets. You are given an array **A** of size 26 where  $A[i]$  denotes the cost of using the  $i^{\text{th}}$  Alphabet (consider 1-based indexing). Find lexicographically the largest string **S** that can be created such that the cost of building the string is exactly **W**. For example, **abc** is lexicographically smaller than **abcd**.

**Input format:**

- The first line contains an integer **T** denoting the number of test cases.
- The first line of each test case contains 26 space-separated integers denoting the costs of characters from **a** to **z**.
- The second line of each test case contains an integer **W**.

**Output format:** For each test case, print the required string **S** in a new line.

**Sample input**

```
1\n1 1 2 3 4 6 9 7 3 6 12 58 32 28 994 22 255 47 69 558 544 21 36 48 85 48 58\n236
```

**Sample output**

```
zzzze
```

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