Question 1
Correct
Marked out of 1.00
F Flag

A binary number is a combination of 1s and 0s. Its nth least significant digit is the nth digit starting from the right starting with 1. Given a decimal number, convert it to binary and determine the value of the the 4th least significant digit.

Example

number = 23

- Convert the decimal number 23 to binary number: $23^{10} = 2^4 + 2^2 + 2^1 + 2^0 = (10111)_2$.
- The value of the 4th index from the right in the binary representation is 0.

Function Description

Complete the function fourthBit in the editor below.

fourthBit has the following parameter(s):

int number: a decimal integer

Returns

int: an integer 0 or 1 matching the 4th least significant digit in the binary representation of number.

Constraints

0 ≤ number < 2³¹

Input Format for Custom Testing

Input from stdin will be processed as follows and passed to the function.

Sample Input 0 STDIN Function -----32 → number = 32 Sample Output 0 Explanation 0 Convert the decimal number 32 to binary number: 32₁₀ = (100000)₂. - The value of the 4th index from the right in the binary representation is 0. Sample Case 1 Sample Input 1 STDIN Function ----77 → number = 77 Sample Output 1 Explanation 1 Convert the decimal number 77 to binary number: 77₁₀ = (1001101)₂.

Question 4 Correct

Marked out of 1.00. P Flag question

Input Format

You are given two strings, a and b, separated by a new line. Each string will consist of lower case Latin characters ('a'-'z').

Output Format

In the first line print two space-separated integers, representing the length of \boldsymbol{a} and \boldsymbol{b} respectively.

In the second line print the string produced by concatenating a and b (a+b).

In the third line print two strings separated by a space, a^* and b^* , a^* and b^* are the same as a and b, respectively, except that their first characters are swapped.

Sample Input

abcd

ef

Sample Output

42

abcdef

ebcd af

Explanation

a = "abcd"

b = "ef"

|a| = 4

|b| = 2

a + b = "abcdef"

a" = "ebcd"

b' = "af"

Question 1 Correct Coders here is a simple task for you, you have given an array of size N and an integer M. Marked out of 1.00 Your task is to calculate the difference between maximum sum and minimum sum of N-M elements of the given array. V Flag question Constraints: 1<=t<=10 1<=n<=1000 1<=a[i]<=1000 Input: First line contains an integer \emph{T} denoting the number of testcases. First line of every testcase contains two integer ${\it N}$ and ${\it M}$. Next line contains ${\it N}$ space separated integers denoting the elements of array Output: For every test case print your answer in new line SAMPLE INPUT 51 12345 SAMPLE OUTPUT

Explanation