**PROBLEMS**

1. **Alpha-diamond in a square**
2. **Nth most re-pattern**
3. **Car show room**

**Predict the mess**

Two hi-tech diamond smugglers went to ghana to rob the biggest diamond ever known in the history. There are 33 locks and security halts towards the diamond. By hook or crook they have crossed the security and came to the entrance of the diamond vault. The final security they have to crack is to solve a coding question. The question is printing a pattern given an input number. On giving the input 5 the pattern is

--------e--------

------e-d-e------

----e-d-c-d-e----

--e-d-c-b-c-d-e--

e-d-c-b-a-b-c-d-e

--e-d-c-b-c-d-e--

----e-d-c-d-e----

------e-d-e------

--------e--------

Help them solving the problem

**Input Format**

single integer n

**Constraints**

1<=n<=26

**Output Format**

pattern according to the input

**Sample Test Cases:**

**Input 1:**

1

**Output:**

a

**Input 2:**

2

**Output:**

--b--

b-a-b

--b--

**Input 3:**

5

**Output:**

--------e--------

------e-d-e------

----e-d-c-d-e----

--e-d-c-b-c-d-e--

e-d-c-b-a-b-c-d-e

--e-d-c-b-c-d-e--

----e-d-c-d-e----

------e-d-e------

--------e--------

**All alpha primes**

The kingdom of sparta has very intellectual ministers. The king wanted to test their ministers intelligence and given a puzzle to solve. the puzzle is:

Given a n-1 space seperated numbers which are product of 2 prime numbers such that the least prime number among them is A and followed 26 primes the last highest prime number is Z. Find the the string formed by combining all the primes side by side gauranteed that all the alphabets are present in the string.

**Input Format**

first line contains 2 space seperated numbers x and y where x is the number where prime numbers are less than or equal to it and y is no of space seperated numbers.

next line contains n-1 space seperated numbers

**Constraints**

x<100000 y>24

**Output Format**

String of all uppercase letters

**Sample Test Cases:**

**Input 1:**

103 25

15 35 77 143 221 323 437 667 899 1147 1517 1763 2021 2491 3127 3599 4087 4757 5183 5767 6557 7387 8633 9797 10403

**Output:**

ABCDEFGHIJKLMNOPQRSTUVWXYZ

**Input 2:**

1003 28

15553 23707 25591 27221 28891 18511 11663 12317 14351 16637 17947 19043 20711 26671 37769 47053 50621 51983 53357 55687 43259 34571 36863 38021 39203 47561 24617 20497

**Output:**

AJKLMNBCDEFGHIOUVWXYZPQRSTZAT

**Swap the Enemies**

Once there were two kings called hash and star. They were best friends and always care for each other. Both the kingdoms ae divided by a big land of orchards. On a fine day suddenly people of both the kingdoms started fighting over the owing of orchards. Both the kings are worried about the situation and requested each other to leave the orchards for them. But none of the kings are ready to accept it so they are preparing for the war. Mean while both the ministers of kingdoms want to stop the war and decided to keep an IQ test for both the kings. Kings accepted for the challenge and ready to participate in it. The challenge is:

There are 2 tables with a line of equal apples placed. Each line has bad apples(#) and good apples($) together. The task is to find the minimum number of moves to equal the apples on the tables following the below 2 rules on the line of apples:

* You can change a bad apple to good apple and vice versa
* You can swap any two apples with in the table.

Help them to solve the challenge

**Input Format:**

n the length of the line of apples

apples on the table 1

apples on the table 2

**Constraints**

n<=10^6

**Output Format**

Minimum no of operations required.

**Sample Test Cases:**

**Input 1:**

6

####$$

##$$##

**Output:**

2

**Input 2:**

10

#$$##$#$$$

$#$$##$###

**Output:**

5

**Input 3:**

3

###

$$$

**Output:**

3

Hello women coders,  
          Hope you all are at home and safe.

Thank you for filling the form and showing the interest. This is a wonderful opportunity for you all to prove yourself and be in Top 30, so that college can train you for WoW specially.

So all the best to you and prove Women are more than Men.

The challenge starts at 8pm and ends at 11 pm.

**The link for challenge is provided below and don’t share this link anybody.  
  
Hackerrank link:** https://www.hackerrank.com/wow-mock-test  
  
Thank you,  
Think hard, Code smart, Stay Safe.  
All the best.