

Assignment 4: Binary Tree

~ 11/12 11:59 PM

Notification

The task should be done by yourself, and you can't use codes from Internet or anyone else. If you don't follow this rule, we will give you 0 score and there can be other disadvantages like F grade.

Exam Guide

1. This test will be conducted in Groom and scoring results will not be released until 11/15.
2. A perfect score is 100 points
3. Each question will be scored with multiple test cases and scored based on the number of passed test cases.
4. Please keep the submission deadline.
5. Please read notification about assignment on I-campus before start your assignment.

Problem Lists

Problem 1. 40 pts

Problem 2. 60 pts

Problem 2

Organize Your Blanket

Score: 60pts

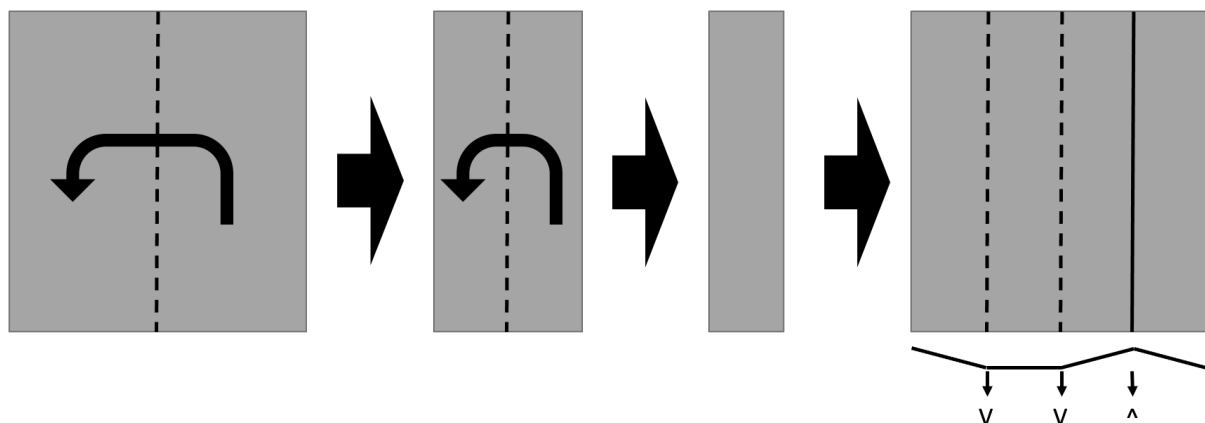
You try to fold the futon and clean it up. They always try to fold in half in one direction. At this time, if you fold and unfold the blanket, the fold will remain on the blanket.

Print the folded shape when folded and unfolded n times. The shape folded up is expressed as '^', and the shape folded down is expressed as 'V'.

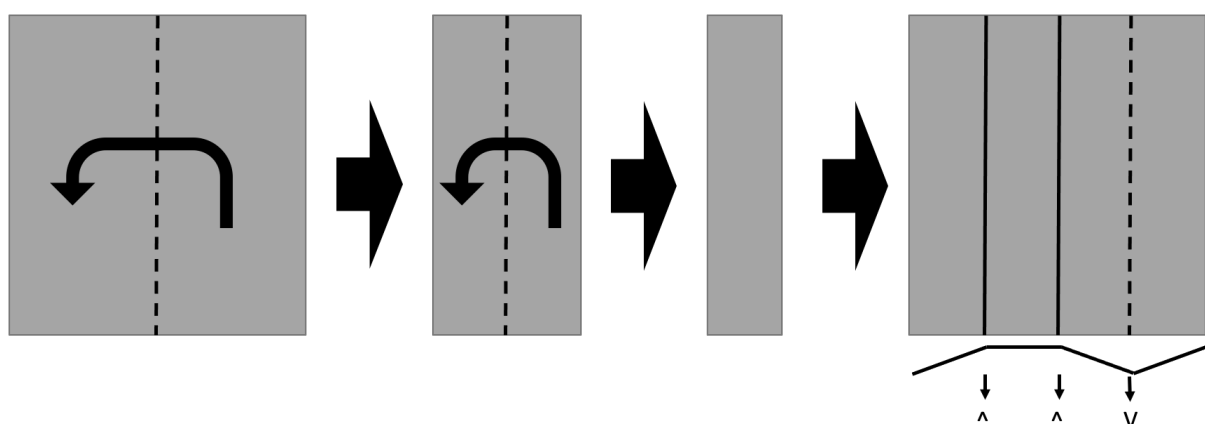
And depending on how you place the folded shape, the folded shape will be expressed in reverse.

Below is the display of when the first folded part went down and when it went up when folded 2 times.

Examples of normal mountains:



Examples of wrong mountains:



➤ **Input**

- Two integers with one blank.
- The first digit is either 0 or 1, indicating the orientation.
 - If it is 0, the first folded part is placed down like the first example picture above.
 - If it is 1, it is placed like the second picture.
- The second number is the number of folds, **which is 1 to 20**.

➤ **Output**

- Expresses the bend folded into a single line.

Sample Input 1

0 1

Sample Output 1

V

Sample Input 2

1 1

Sample Output 2

^

Sample Input 3

0 2

Sample Output 3

VV^

Sample Input 4

1 2

Sample Output 4

^^V