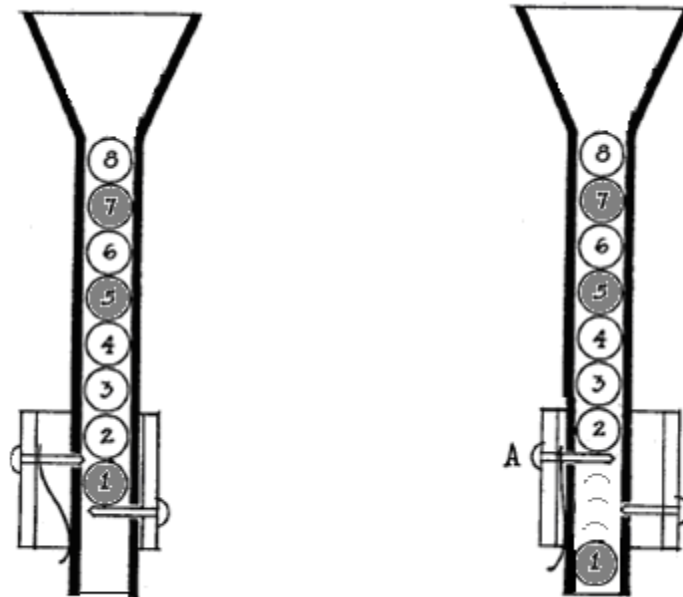


Problem 9: Poison Pills¹



Source filename: pills.(cpp|java)
 Input filename: pills.in
 Output filename: pills.out

A cruel king of long ago devised a long tube full of pills that he used to determine by lot which of his captives should die. Some of the pills were made of white sugar; however, others were black poison pills. The tube had a spring-release at the bottom that allowed exactly one pill to fall when the spring was pressed in at point A in the figure below.



Each captive's fate depended upon the *second* pill which fell into his hands. The captive had to place the *first* pill back into the top of the tube, no matter what its color, and swallow the second. After swallowing a pill the captive is free to go. If he swallowed a sugar pill, then he is one of the lucky ones who will live to see another day.

Example: The figure shows 8 pills ready to be drawn. Assume that 7 captives are forced to play this deadly game. Captive #1 draws the black pill first; but replaces it in the tube at the top. He then draws and eats pill #2, a sugar pill. Then captive #2 draws pill #3, replaces it at the top, and eats pill #4. Continuing in this fashion, captive #3 will eat pill #6; captive #4 eats pill #8. At this point, the only pills left in the tube are numbers 1, 3, 5, and 7 (in that order). Captive #5 will eat pill #3. Unfortunately for captive #6, he will be forced to eat the black pill #7. Things are not any better for captive #7, since he must eat pill #5. Thus, captives #6 and #7 are the ones selected by lot to suffer death.

¹ The problem appeared on the March 31, 2006 CCSC Student Programming Contest
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Given the number of pills, the number of captives, as well as the initial arrangement of white and black pills, your problem is to determine which captives will die.

Write a program named `pills.cpp` that reads input from a file named `pills.in` and write output to a file named `pills.out`. All output to the screen will be ignored.

Input File (`pills.in`)

The input file contains one or more test cases. Each test case contains 2 lines. The line after the last test case contains two 0's separated by a single space. This line is used to indicate the end of the file.

The first line of a test case contains 2 positive integers separated by a single space. The first of these integers, m , represents the number of pills that are initially loaded into the tube. The second integer, n , represents the number of captives. The value for m is at most 100. The value for n is less than or equal to m ($0 < n \leq m \leq 100$).

The second line contains a string of m letters. Each letter is either an uppercase 'W', which indicates a white sugar pill, or an uppercase 'B', which indicates a black poison pill. The order of the letters corresponds to the order of the pills in the tube from bottom to top. For instance, the first test case in the sample input file below corresponds to the arrangement of pills in the figure above.

Output File (`pills.out`)

For each test case write one line that indicates which captives were forced to eat a black pill. The format of this line should be a series of integers that represents the captives' numbers, sorted in ascending order. Each integer should be separated from the rest by a single space. However, there should be no leading or trailing spaces on the line. If no captives were forced to eat a black pill, then the line should simply contain the single integer, 0.

Sample Input File

```
8 7
BWWWBWBW
10 10
BBBBBBWB
4 3
WWWW
0 0
```

Sample Output File

```
6 7
1 2 3 4 5 6 8 9 10
0
```