

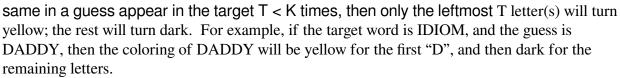
34th Annual High School Programming Contest

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Gold Problem #4: Wordle

<u>Background Information:</u> Wordle is a popular word guessing game, in which you attempt to guess a hidden five letter word (called the target) in at most six attempts. Each attempt will result in a colorization of your guess, according to the following scheme:

- Letters that are not in the word will turn dark.
- Letters that are in the word and are in the correct spot in the target will turn green.
- Letters that are in the word but are in a different spot will turn yellow. If K ≥ 2 or more letters that are the



Your program will read in a target word (the answer) followed by an integer $1 \le N \le 6$ representing the number of guesses, followed by N guess words. Each word will be exactly 5 uppercase letters. Your program will then output N strings consisting of the letters G, Y, and D for each guess, based upon the colorization scheme noted above. The letter G represents green, Y represents yellow, and D represents dark.

Programming Problem:

Input: 1 5-letter word, followed by an integer N in [1, 6], followed by N 5-letter words, each on separate lines, all in uppercase letters

Output: N 5-letter output strings made up of G's Y's and D's for each of the N guesses in order.

Example 1: Input: YYYDD
BATON YYYDY
4 GGGGG
AUDIO
TOADS
ABOUT

Example 2: Input:

В

ICING 6 ONION

Output:

YDDDY

BATON

ANION MIMIC GOING COMIC ABOUT

Output: DYGDD DYGDD DYDYY DDGGG YDDYD DDDDD

Example 3:

Input:

MIGHT 6 OTTER TIGHT SIGHT LIGHT NIGHT FIGHT

Output:

DYDDD DGGGG DGGGG DGGGG DGGGG DGGGG