

Spell Caster Harry Potter

Spell Caster

Harry is getting ready to fight the dark lord Voldemort. To win, Harry has to successfully cast a Spell which is a combination of (zero or more) spells he was taught at Hogwarts. If he casts anything else not in the spell book, Voldemort will win in the fight against Harry potter.

Can you help Harry figure out if the spell he casts can make him win against Voldemort?

Input:

Each Input contains 3 lines

Line 1: Number of spells in the spell book.

Line 2: The spell book itself - each spell is space separated.

Line 3: The spell Harry casts (No space separation).

All spells will be in lowercase letters.

Harry can repeat spells.

Output:

Winner of the contest. If Harry casts a combination of Spell taught at Hogwarts, the winner is **Harry**, otherwise, the winner is **Voldemort**.

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Example 1:

Input:

3

alohomora lumos accio

lumosaccio

Output:

Harry

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Example 2:

Input:

3

expelliarmus expectopatronum accio

accioexpelliarmus

Output:

Voldemort

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Example 3:

Input:

2

lumos oscuro

lumoscuro

Output:

Voldemort