It was a dark windy morning when Alex, being a guy who adores winter, decided to go on an early walk under the rain. He was thinking about the girl he loves and not sure whether he should confess his feelings to her or not. Being so hesitant, he picked up a blue flower having N leaves. He was about to start counting naively as all people do, she loves me, no she doesn't, she loves me, no she doesn't … etc. until finally the last leaf gives him the answer of luck. However, he noticed that the result could be predicted by knowing the parity of N (even or odd) and deciding what the first leaf starts with (she loves me/ she doesn't love me). For example, if N is even, and he starts with "she loves me", the last leaf would indicate "she doesn't love me".

Alex wanted destiny to play the role, so he randomly picked two positive integers x and y and changed the rules of the game. Instead of alternating between "she loves me" and "no she doesn't", he decided to it the following way:

- Step1: pick x leaves saying "she loves me"
- Step2: pick y leaves saying "she doesn't love me"
- Step3: keep repeating the same procedure until no leaves are left to count.

Knowing that starting from step 2 would yield a different result than starting from step 1, Alex still has hope that things are going to work out. So, he decided to ask for your help.

Input format: the input consists of a single line containing three integers N, x and y such that: 1<=N<=10^18

0<x, y<N

Output format: print "Hope" if the result can be "she loves me" starting from step2 or step1. If any choice would yield the result "she doesn't love me", just print "Despair".

Sample input 1: 100 50 40

Sample Output 1: Hope

Explanation 1: Alex can start by "she loves me", cutting out first 50 leaves, 50 leaves are left, out of which 40 are cut indicating "she doesn't love me". Now 10 leaves are left, and continuing with "she loves me" gives the required result.

Sample input 2: 15 3 7

Sample input 2: Despair

Explanation 2: If Alex starts with "she loves me", the result would be "she doesn't love me". The same result follows if he starts with "she doesn't love me". So, no matter how he starts, the result will be "she doesn't love me".