BASE FIGHT

Naruto and Sasuke are engaged in thier final battle. The result of the battle can be computed mathematically. If the total number of one's in both the Naruto and Sasuke power's (absolute value) binary form is even, naruto wins and if it's odd sasuke wins. 🙂

Input

The input consist of series of test cases terimnated by 0 0 test case. Each test case will consist two integers m and n ($-10^9 <= m, n <= 10^9$) as Naruto's and Sasuke's powers respectively.

Output

Each line of output must consist of "Naruto Wins :)" if naruto wins otherwise "SasUke Wins :(" .

Example

Input:
5 6
11 16
0 0
Output:
Naruto Wins :)
Naruto Wins :)