## Perfect Matching

You are given a bipartite graph with $N(1<=N<=300)$ nodes on each side. Determine whether the number of perfect matching is odd or even.

## Input

First line is an integer $\mathrm{T}(1<=\mathrm{T}<=20)$ means the number of test cases. The following are T parts. Each part begin with an integer $\mathrm{N}(1<=\mathrm{N}<=300)$ means the number of nodes on both sides. It followed with N lines, each line contains a $0 / 1$ string. If the $\mathrm{j}(1<=\mathrm{j}<=\mathrm{N})$ th character of the $i(1<=i<=N)$ th line is 1 , it means the $i$ th node on left have an edge to the $j$ th node on right. See the sample for details.

## Output

T lines, each contain "Odd" or "Even", which means the parity of the number of the perfect matching. See the sample for details.

## Example

Input:
2
1
1
4
1100
1100
0011
0011
Output:
Odd
Even

## Constraints

$1<=\mathrm{N}<=300$
$1<=$ T <= 20

