

# Skew Search

## ZPRAC-16-17-Lab8

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### [10]Skew Search

Shaktimaan is the noblest of creatures to live on Earth. He believes in peace and symmetry in life and gets annoyed by any imbalance. He specially likes skew-matrices as it is a balance between positives and negatives. You being his greatest follower are on a mission to find such matrices for him. Write a C code that checks whether a given matrix is skew-symmetric or not.

Definition: A square matrix  $M$  of size  $N$  is skew-symmetric if  $M = -M^T$

Input: First line contains an integer  $N(1 \leq N \leq 100)$  representing size of the square matrix.

Next  $N$  lines follow with  $N$  space separated integers each.

Output: Print SKEW MATRIX in case matrix is skew-symmetric, otherwise print NOT SKEW.

Example:

Input:

2  
-1 1  
1 3

Output:

NOT SKEW

Input:

2  
0 -1  
1 0

Output:

SKEW MATRIX