Problem 3

Given an undirected graph, find how many more edges have to be added to make it Eulerian. If the given graph cannot be made Eulerian, by adding edges, then print -1. Otherwise output the number of edges to be added. Assume the graph is a simple graph and it is connected. If the graph is on n vertices, the vertex set is from $\{0,...,n-1\}$.

The input graph is given in adjacency matrix format. The first line of the input specifies n, the number of vertices. The following n^2 entries of 0s and 1s denote the row major ordering of the adjacency matrix.

Sample Input

```
4 #Number of vertices
0 #Entries of matrix in row-major order
1
0
1
1
0
0
0
0
0
0
1
1
0
1
0
An adjacency matrix (0-1 \text{ matrix}) where, 1 corresponds to presence of an edge, and 0 - absence of the
edge)
*/
Sample Output -
1
```