#include <stdio.h>

#include <stdlib.h>

#define MAXN 20

int n;

int preference[MAXN][MAXN];

int dp[1 << MAXN];

int countAssignments()

{

int i, j, mask;

dp[0] = 1;

for (mask = 1; mask < (1 << n); mask++)

{

dp[mask] = 0;

int k = \_\_builtin\_popcount(mask) - 1;

for (j = 0; j < n; j++)

{

if ((mask & (1 << j)) && preference[k][j])

dp[mask] += dp[mask ^ (1 << j)];

}

}

return dp[(1 << n) - 1];

}

int main()

{

scanf("%d", &n);

for (int i = 0; i < n; i++)

{

for (int j = 0; j < n; j++)

{

scanf("%d", &preference[i][j]);

}

}

int result = countAssignments();

printf("%d\n", result);

return 0;

}