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Given a square matrix (as vector of vector) of integers, pick one number from each row, so that no two numbers lie on the same column to get a maximum sum. Do it once with recursive method, find its complexity, then optimize.

If the matrix is N by N, then the complexity is f(N), we have :

```
f(N) = O(N * f(N-1))
f(N) = O(N!)
```

Can we optimize it? As we increase the size to 15×15 , the above implementation does not work. This problem is known as assignment problem, solved by Hungarian algorithm.