Task1.

The expected running time is quadratic time O(N\*N). The number of elementary steps is ~ N\*N.

First cycle iterates N times. For each iteration of the cycle, the second one iterates N times.

Task2.

Runs in quadratic time O(N\*M) or O(N) or N + M\*N/2 ~ (M+2)\*N/2 or N + M\*N ~ (M+1)\*N or  N + N\*(N+1)\*M/2/N ~ N + M\*(N+1)/2.

The first cycle iterates N times.

**if** (matrix[row, 0] % 2 == 0) this statement is true from 0 to N times or average N/2

The second cycle iterates M times but not for each iteration of the first one.

In the average case iterates half of the times M\*N/2, worst is N\*M, best is N

Task3.

m + (n - 1) \* m = n \* m или O(n \* m) или O(n^2).