CSE 143 Au00 Quiz 5 – November 28, 2000

Name _____ Section _____

For each of the following sequences of code, use O() notation to describe the running time in terms of N. Give a lower bound for the running time; don't just answer that all are $O(2^n)$.

```
1. double grid[N][N];
...
for (int j = 0; j < N; j++)
    for (int k = 1; k <= 3; k++)
        grid[j][k] = j*k;
```

Running time is *O*(_____)

```
2. double m[N] [N];
...
for (int r = 0; r < N; r++)
    for (int c = 0; c <= r; c++)
        m[r][c] = 1;
for (int d = 0; d < N; d++)
        m[d][d] = 0;
```

```
Running time is O(\underline{n^2})
```