

Use the code below to answer the following questions.

```
for i from 0 to n-1
  "Line 2"
  for j from 0 to n*n
    "Line 4"
    for k from 0 to i
      "Line 6"
```

1) If "Line 2" is the line of interest and everything else is trivial, what is the asymptotic growth rate of this algorithm?

2) If "Line 4" is the line of interest and everything else is trivial, what is the asymptotic growth rate of this algorithm?

3) If "Line 6" is the line of interest and everything else is trivial, what is the asymptotic growth rate of this algorithm?

4) If "Line 2" and "Line 4" are the lines of interest and everything else is trivial, what is the asymptotic growth rate of this algorithm?

5) If "Line 4" and "Line 6" are the lines of interest and everything else is trivial, what is the asymptotic growth rate of this algorithm?