Makeup quiz (replaces your lowest quiz)

Duration: 10 minutes

open notes, please show your work

Name:...................................
ID#:.......................................

Question: Given *ikj* and *kij* variants of matrix multiplication code segments below, explain how their performance would differ.

```
/* ikj */
for (i=0; i<n; i++) {
 for (k=0; k<n; k++) {
  r = a[i][k];
  for (j=0; j<n; j++)
   c[i][j] += r * b[k][j];
 }
}



/* kij */
for (k=0; k<n; k++) {
 for (i=0; i<n; i++) {
  r = a[i][k];
  for (j=0; j<n; j++)
   c[i][j] += r * b[k][j];
 }
}
```