10810EECS204001  
Data Structures Project Bonus

Due date: 2020/1/20 23:59

Upload code to iLMS

Submission

* Please upload the following to iLMS
  + Code
  + Makefile

Description

For your bonus score, you need to output the maximum size of clique that you can found in 30 seconds. You should output the clique you find into a file named “clique.txt”

Your programs need to complete in 30 seconds. An *INTERRUPT* signal will be sent if your programs run for 30 seconds, and 5 seconds later, a *KILL* signal will be sent to terminate your program.

You should provide a makefile. After the “make” command, an executable file “clique\_find.exe” should be created.

Input

Input will be a file and integer ***V***, each line in the file is an edge in the graph. ***V*** is the number of vertices in the graph.

Output

Output a file named “clique.txt”, each line contains one integer, i.e., the vertex ID in the clique.

Sample Input

Graph input:

0 1

0 2

0 3

0 4

1 2

1 3

1 4

2 3

2 4

3 4

Sample Output

clique.txt:

0

1

2

3

4

Scoring

Scores depend on the size (ranking) of the clique you find.

Top 10%: 10

Top 50%: 5

Top 70%: 2