FACE TCS Ninja - Coding\_6



TEST CODE : TCS Ninja -

Coding\_6

Total number of question: 1
Test duration (min): 20 min
Correct attempt (mark): NA
Wrong attempt (mark): NA

## CODING

Given two lines, write Program for finding its intersection point

```
#include <stdio.h>
int main()
  float x1, y1, x2, y2;
  scanf("%f,%f\n%f,%f", &x1, &y1, &x2, &y2);
  float x3,y3,x4,y4;
  scanf("%f,%f\n%f,%f", &x3, &y3, &x4, &y4);
  float m1 = (y2-y1)/(x2-x1);
  float m2 = (y4-y3)/(x4-x3);
  // Line 1
  // y = y1 + m * (x - x1);
  // y = y1 + m * (x - x1);
  // y = m1*x + y1 - m1*x1
  // Line 2
  // y = y1 + m * (x - x1);
  // y = y3 + m2 * (x - x3);
  // y = m2*x + y3 - m2*x3
  // Solving line 1 and line 2 eqn
  float x_intersection = (y1 - m1 * x1 - y3 + m2 * x3)/(m2-m1);
  float y_intersection = y1 + m1 * (x_intersection - x1);
  printf("%0.2f,%0.2f", x_intersection, y_intersection);
  return 0;
}
```

Buy top competitive programming and coding question book to clear interview. 100+ solved questions
Buy top data structure and algorithm book to clear interview. 90+ Chapters
Join telegram channel for placement materials

Best website for interview preparation: www.prodevelopertutorial.com