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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("%.2f,%.2f", x_intersection, y_intersection);

return 0; }
```

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TEST CODE : TCS Ninja - Coding_6

Total number of question : 1

Test duration (min) : 20 min

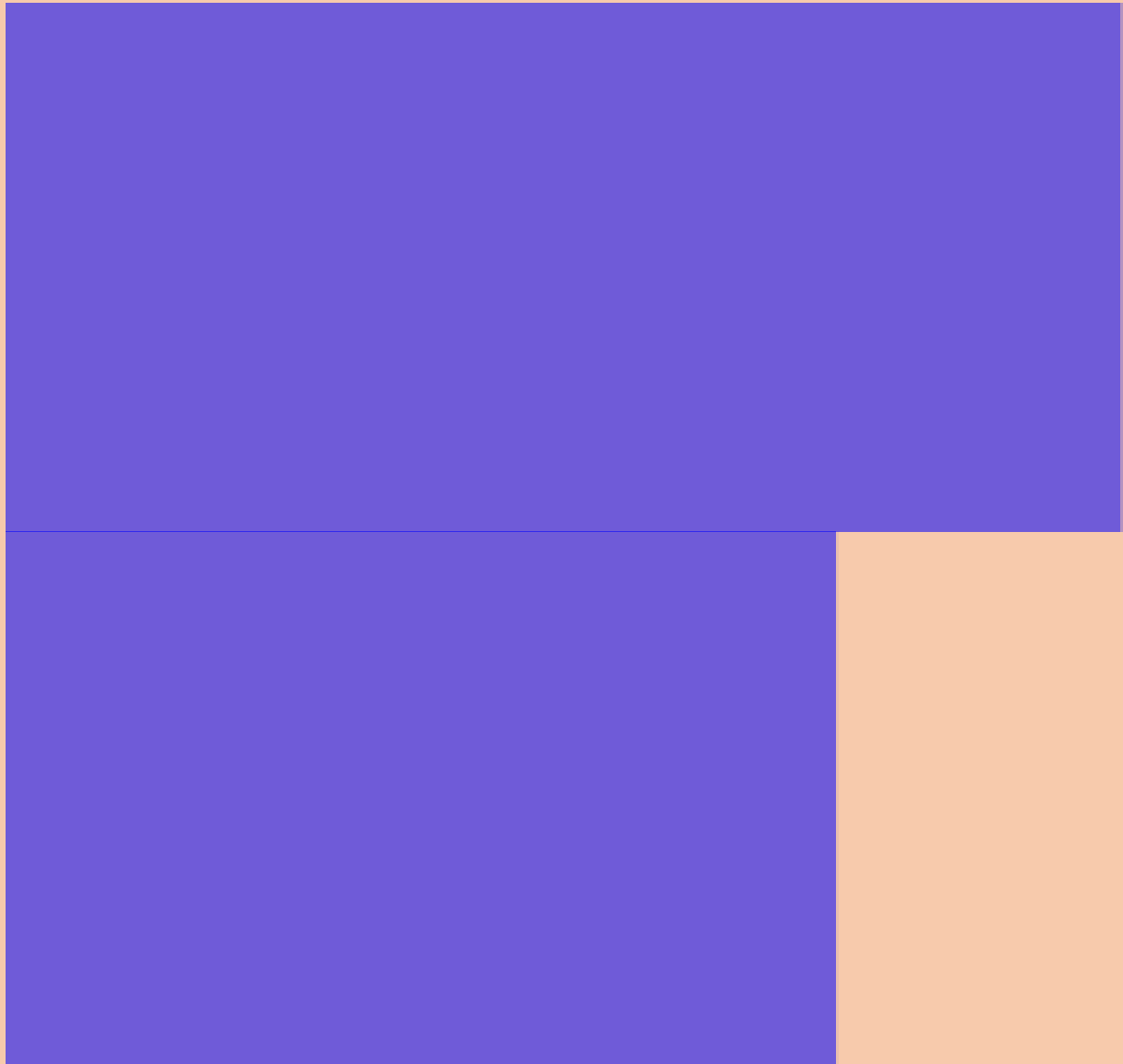
Correct attempt (mark) : NA Wrong attempt (mark) : NA

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