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MATRIC NUMBER: A23CS0207

```
#include <iostream>
#include <cmath>
using namespace std;
int main ()
{
int x1=1, y1=3, x2=2, y2=6, x3=5, y3=4;
char x,y;

cout << "A(1,3), B(2,6), and C(5,4)";

char point [2][1]={
{'x'},{'y'},
};

cout<<endl;
for(char i=0;i<1;i++){
cout<<"   ";
 for(char j=0;j<2;j++){
cout<<point[j][i]<<"\t";
}
}

int coor [2][3]={

{1,2,5},
{3,6,4},
```

```
};

cout<<endl;
for(int i=0;i<1;i++){
cout<<"A  ";
for(int j=0;j<2;j++){
cout<<coor[j][i]<<"\t";
}
}
cout<<endl;
for(int i=1;i<2;i++){
cout<<"B  ";
for(int j=0;j<2;j++){
cout<<coor[j][i]<<"\t";
   }
}

cout<<endl;
for(int i=2;i<3;i++){
cout<<"C  ";
for(int j=0;j<2;j++){
cout<<coor[j][i]<<"\t";
}
}
cout<<endl;


double AB, AC, BC;
```

```
AB = sqrt (pow(x2-x1,2)+pow(y2-y1,2));

AC = sqrt (pow(x3-x1,2)+pow(y3-y1,2));

BC = sqrt (pow(x3-x2,2)+pow(y3-y2,2));


cout<<endl;

cout<<"AB: "<<AB<<"\n"<<"AC: "<<AC<<"\n"<<"BC: "<<BC;


return 0;

}
```