EDITORIAL - THE PARADE

Let us find the the maximum length required to cover all points along the x-axis, and denote it by Ox=maximum xi-minimum xi. Similarly Oy = maximum yi-minimum yi. Now because the area has to be square, we'd find which one out of Ox and Oy is maximum.

```
#include <iostream>
#include<algorithm>
using namespace std;
int main()
{
       int n;
       cin>>n;
       long long a[n],b[n],i,x,y;
       for(i=0;i< n;i++)
       {
              cin>>a[i]>>b[i];
       sort(a,a+n);
       sort(b,b+n);
       x=a[n-1]-a[0];
      y=b[n-1]-b[0];
       if(x>y)
       cout<<x*x;
       else
       cout<<y*y;
       return 0;
}
```