Problem Link:

<https://codeforces.com/problemset/problem/1921/A>

Solution:

* **#include** <bits/stdc++.h>
* **using** **namespace** std;
* **int** main() {
* **int** t;
* cin >> t;
* **while**(t--) {
* **vector**<pair<**int**, **int**>> v(4);
* **for**(**int** i = 0; i < 4; i++)
* {
* cin >> v[i].first >> v[i].second;
* }
* **int** m = 0;
* **for**(**int** i = 0; i < 4; i++)
* {
* **for**(**int** j = i + 1; j < 4; j++)
* {
* **int** x = v[i].first - v[j].first;
* **int** y = v[i].second - v[j].second;
* **if**(x == 0 || y == 0)
* m = max(m, x \* x + y \* y);
* }
* }
* cout << m << **"\n"**;
* }
* **return** 0;
* }