Python

```python
def get_distance(first_point: list, second_point: list) -> float:
    return ((first_point[0]-second_point[0])**2 + (first_point[1]-second_point[1])**2)**0.5


max_distance = 0
list_of_points = [[1, 3], [1, 5], [1, 7], [2, 8], [3, 7]]
for num, i in enumerate(list_of_points):
    for j in list_of_points[num+1:]:
        distance = get_distance(i, j)
        if distance > max_distance:
            max_distance = distance

print(max_distance)
```

```
MacBook-Pro-Igor-2:lab_1_siap igorchvyrov$ python3 14_var.py
5.0990195135927845
```

C++

```cpp
#include <iostream>
#include <math.h>

using namespace std;

int main() {

    int arr[5][2]{{1, 3}, {1, 5}, {1, 7}, {2, 8}, {3, 7}};
    double tmp;
    int p1, p2;
    double dist = 0;

    for (int i = 0; i < 5; i++) {
        for (int j = 0; j < 5 - i; j++) {
            tmp = sqrt(pow((arr[i][0] - arr[j][0]), 2) + pow((arr[i][1] -
                arr[j][1]), 2)) * 1.;
            if (tmp > dist) {
                dist = tmp;
                p1 = i;
                p2 = j;
            }
        }
    };
    cout << dist << endl;
}
```

Output

/tmp/dKmmTSNgUh.o
5.09902