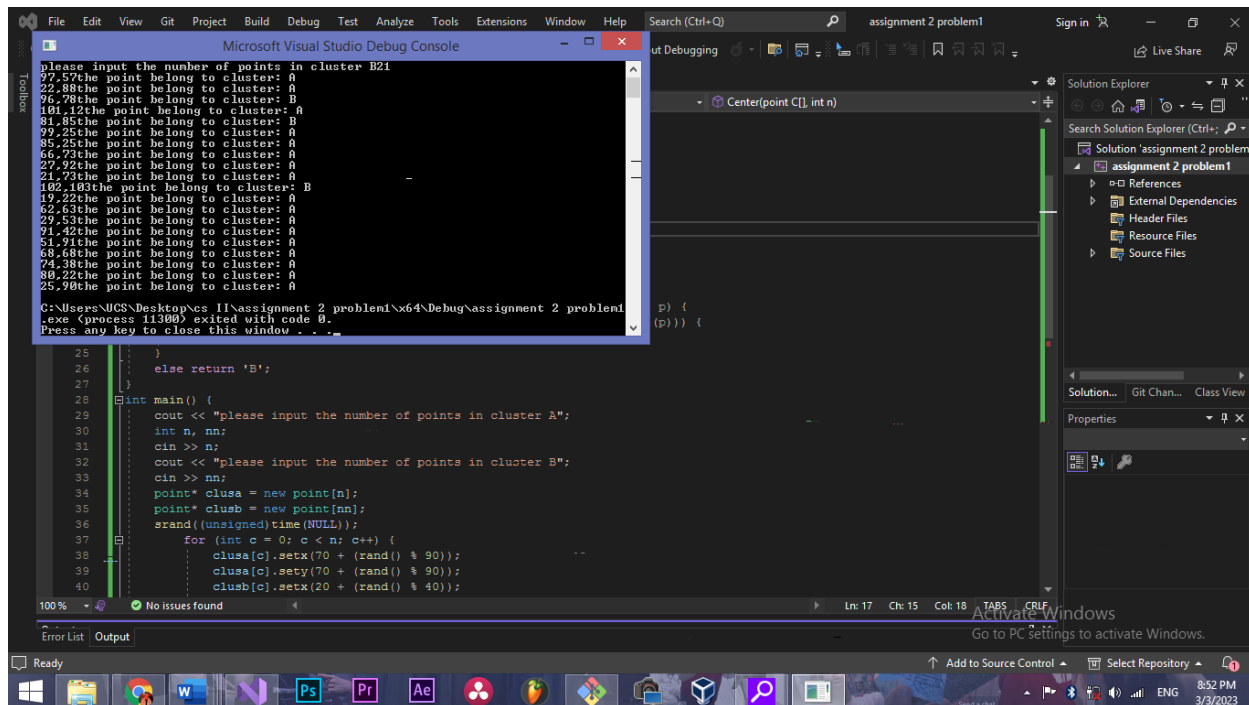


First test



The screenshot shows the Visual Studio Debug Console with the following output:

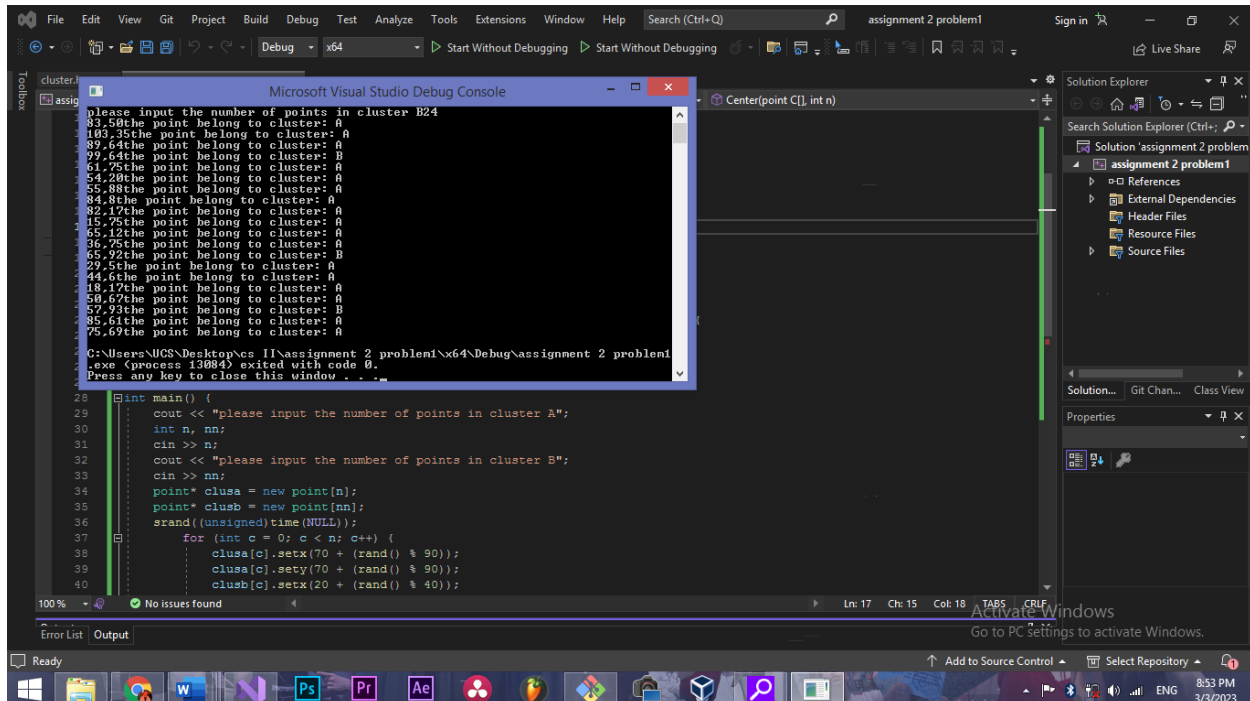
```
please input the number of points in cluster B: 21
97.57the point belong to cluster: A
22.98the point belong to cluster: A
96.78the point belong to cluster: B
101.12the point belong to cluster: A
81.85the point belong to cluster: B
99.25the point belong to cluster: A
85.25the point belong to cluster: A
66.73the point belong to cluster: A
27.92the point belong to cluster: A
21.73the point belong to cluster: A
102.103the point belong to cluster: B
19.22the point belong to cluster: A
62.63the point belong to cluster: A
29.53the point belong to cluster: A
91.42the point belong to cluster: A
51.91the point belong to cluster: A
68.68the point belong to cluster: A
74.38the point belong to cluster: A
80.22the point belong to cluster: A
25.90the point belong to cluster: A

C:\Users\NCS\Desktop\cs II\assignment 2 problem1\Debug\assignment 2 problem1.exe (process 11300) exited with code 0.
Press any key to close this window . . .
```

The code in the background is as follows:

```
25     }
26     else return 'B';
27 }
28 int main() {
29     cout << "please input the number of points in cluster A";
30     int n, nn;
31     cin >> n;
32     cout << "please input the number of points in cluster B";
33     cin >> nn;
34     point* clusa = new point[n];
35     point* clusb = new point[nn];
36     srand((unsigned)time(NULL));
37     for (int c = 0; c < n; c++) {
38         clusa[c].setx(70 + (rand() % 90));
39         clusa[c].sety(70 + (rand() % 90));
40         clusb[c].setx(20 + (rand() % 40));
```

Second test



The screenshot shows the Visual Studio Debug Console with the following output:

```
please input the number of points in cluster B: 24
83.50the point belong to cluster: A
103.35the point belong to cluster: A
89.64the point belong to cluster: A
99.64the point belong to cluster: B
61.75the point belong to cluster: A
54.20the point belong to cluster: A
55.88the point belong to cluster: A
84.8the point belong to cluster: A
82.17the point belong to cluster: A
15.75the point belong to cluster: A
65.12the point belong to cluster: A
36.75the point belong to cluster: A
65.92the point belong to cluster: B
29.5the point belong to cluster: A
44.6the point belong to cluster: A
19.12the point belong to cluster: A
50.67the point belong to cluster: A
57.93the point belong to cluster: B
85.61the point belong to cluster: A
75.69the point belong to cluster: A

C:\Users\NCS\Desktop\cs II\assignment 2 problem1\Debug\assignment 2 problem1.exe (process 13084) exited with code 0.
Press any key to close this window . . .
```

The code in the background is as follows:

```
28 int main() {
29     cout << "please input the number of points in cluster A";
30     int n, nn;
31     cin >> n;
32     cout << "please input the number of points in cluster B";
33     cin >> nn;
34     point* clusa = new point[n];
35     point* clusb = new point[nn];
36     srand((unsigned)time(NULL));
37     for (int c = 0; c < n; c++) {
38         clusa[c].setx(70 + (rand() % 90));
39         clusa[c].sety(70 + (rand() % 90));
40         clusb[c].setx(20 + (rand() % 40));
```