```
Abdallah@AbdallahFathi MINGW64 /a/C++/CS2/Assignment2
$ g++ Point.cpp Assignment2.cpp

Abdallah@AbdallahFathi MINGW64 /a/C++/CS2/Assignment2
$ ./a
Point 1 belongs to cluster A
Point 2 belongs to cluster B
Point 3 belongs to cluster B
Point 4 belongs to cluster A
Point 5 belongs to cluster B
Point 6 belongs to cluster A
Point 7 belongs to cluster A
Point 8 belongs to cluster A
Point 9 belongs to cluster A
Point 10 belongs to cluster B
Point 11 belongs to cluster B
Point 12 belongs to cluster A
Point 13 belongs to cluster B
Point 14 belongs to cluster A
Point 15 belongs to cluster A
Point 16 belongs to cluster A
Point 17 belongs to cluster A
Point 18 belongs to cluster A
Point 19 belongs to cluster B
Point 20 belongs to cluster A
```