# LAPORAN UAS STRUKTUR DATA ADJACENCY LIST UNDIRECTED GRAPH



### Disusun oleh:

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#### A. Source Code

```
C:\Users\LENOVO\Downloads\Adjacency List.cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
 (globals)
 3 #1
4 #i
5 us
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7 cl
8  {
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      using namespace std;
      class edge
          private:
   int nodeid, weight;
          public:
              edge (int id, int w)
                  nodeid = id;
weight = w;
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              int getnodeid ()
                 return nodeid;
               int getweightid ()
                 return weight;
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■ C:\Users\LENOVO\Downloads\Adjacency List.cpp - Dev-C++ 5.11

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 (globals)
 Adjacency List.cpp
      int main ()
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          int totalnode, node1, node2, w;
ifstream input ("test.txt");
//ofstream output ("test.txt");
input >> totalnode;
vector < list <edge> > adjlist (totalnode);
while (input >> node1 >> node2 >> w)
              adjlist [node1-1] .push_back (edge (node2, w));
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          }
int c = 1;
vector < list <edge> > :: iterator i;
for (i = adjlist.begin(); i != adjlist.end(); i++)
              cout << c << " -> ";
list <edge> li = "i;
list <edge> :: iterator iter;
for (iter = li.begin(); iter != li.end(); iter++)
                 cout << " [" << (*iter) .getnodeid() << ", " << (*iter) .getweightid() << "] -> ";
               cout << endl;
🔡 Compiler 🖣 Resources 🛍 Compile Log 🤣 Debug 🗓 Find Results
           Col: 1
                      Sel: 0 Lines: 58 Length: 1216
                                                                       Done parsing in 0,672 seconds
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```

## B. Input

```
test - Notepad
                                                                                     File Edit Format View Help
1 2 5
1 3 1
1 4 3
2 1 5
2 3 1
2 4 1
3 1 1
3 2 1
4 1 3
4 2 1
                                       Ln 1, Col 1
                                                         100%
                                                                Windows (CRLF)
                                                                                UTF-8
```

## C. Output