Main.cpp

Graph.cpp

```
■void createVertex 103032330054(char newVertexID, adrVertex &v){
     v->firstEdge = NULL;
     v->nextVertex = NULL;
     v->idVertex = newVertexID;
void initGraph 103032330054(graph &G){
     G.firstVertex = NULL;
void addVertex_103032330054(graph &G, char newVertexID){
    adrVertex P = new vertex;
     createVertex 103032330054(newVertexID, P);
     if (G.firstVertex == NULL) {
         G.firstVertex = P;
        P->nextVertex = G.firstVertex;
         G.firstVertex = P;
void buildGraph 103032330054(graph &G) =
     char input;
     cin >> input;
     while (input >= 'A' && input <= 'Z') {
         addVertex_103032330054(G, input);
         cin >> input;
```

Graph.h

```
graph.cpp X graph.h X main.cpp X
          #ifndef GRAPH_H_INCLUDED
#define GRAPH_H_INCLUDED
          using namespace std;
          typedef struct vertex *adrVertex;
         typedef struct edge *adrEdge;
        char idVertex;
             adrVertex nextVertex;
             adrEdge firstEdge;
        };
        char destVertexId;
        int weight;
             adrEdge nextEdge;
        = struct graph{
             adrVertex firstVertex;
        };
         void createVertex 103032330054(char newVertexID, adrVertex &v);
         void initGraph 10\overline{3}032330054 (graph &G);
         void addVertex_103032330054(graph &G, char newVertexID);
         void buildGraph 103032330054(graph &G);
```

Output

```
"D:\Kuliah\Semester 3\STD\Source-Code-Smt-3\Mod
A
B
C
D
E
F
2

F
E
D
C
B
A
Process returned 0 (0x0) execution time :
Press any key to continue.
```