```
#define Max 100
     #define Max E 100
     // duyet do thi theo dang dinh dinh
     typedef struct
 5
 6
         int A[Max_E][Max_E];
 7
         int n, m;
8
     } Graph;
9
     // tao so do dinh dinh
10
     void init graph(Graph *G, int n)
11
12
         int i, j;
13
         G->n = n;
14
         for (i = 1; i <= G->n; i++)
15
16
              for (j = 1; j \leftarrow G-n; j++)
17
              {
18
                  G->A[i][j] = 0;
19
              }
20
         }
21
22
     // khoi tao do thi dinh cung
23
    void init graph1(Graph *G, int n, int m)
24
25
         int i, j;
26
         G->n = n;
27
         G->m = m;
28
         for (i = 1; i <= G->n; i++)
29
30
             for (j = 1; j \le G-m; j++)
31
32
                  G->A[i][j] = 0;
33
              }
34
         }
35
     // theo cung vao do thi dinh - dinh
36
37
     void add edge(Graph *G, int x, int y)
38
     {
39
         G->A[x][y] = 1;
40
         // G->A[y][x] = 1;
41
42
     // them cung vao do thi dinh cung
43
     void add edge1(Graph *G, int x, int y, int e)
44
     {
45
         G->A[x][e] = 1;
46
         // G->A[y][e] = 1;
47
     // kiem tra co phai lang gieng
48
49
     int adjacent(Graph G, int x, int y)
50
51
         return G.A[x][y] == 1;
52
53
     // tinhh Qo bac cua mot dinh
54
     int degree (Graph *G, int x)
55
     {
56
         int i;
57
         int deg = 0;
58
         for (i = 1; i <= G->n; i++)
59
60
             if (G->A[x][i] == 1)
61
              {
62
                  deg++;
63
              }
64
65
         return deg;
66
67
     /// in do thi dinh-dinh
68
     void in(Graph G)
69
```

```
70
         int i, j;
71
         for (i = 1; i <= G.n; i++)</pre>
72
73
              for (j = 1; j <= G.n; j++)</pre>
74
75
                   printf("%d ", G.A[i][j]);
76
77
              printf("\n");
78
79
80
     // in do thi dinh-cung
81
     void in1(Graph G)
82
83
         int i, j;
for (i = 1; i <= G.n; i++)</pre>
84
85
86
              for (j = 1; j \le G.m; j++)
87
88
                   printf("%d ", G.A[i][j]);
89
90
              printf("\n");
91
          }
92
     }
```