```
後点 i=1 i=2 i=3 i=4 i=5 i=6 i=6 i=5 i=6 i=5 i=6 i=5 i=6 i=6
```

## 算法题

(3)

```
void shortestmax(AMGraph G, int v0)
    n = G. vexnum;
    for (v = 0; v < n; ++v)
         S[v] = false;
         D[v] = G. arcs[v0][v];
         if (D[v] < MaxInt)</pre>
              Path[v] = v0;
         else Path[v] = -1;
    }
    S[v0] = true;
    D[v0] = 0;
    for (i = 1; i < n; i++)
         min = MaxInt;
         for (w = 0; w < n; ++w)
              if (!S[w] && D[w] < min)</pre>
              {
                   v = w;
                  min = D[w];
         S[v] = true;
         for (w = 0; w < n; ++w)
              if (!S[w] \&\& (D[v] + G.arcs[v][w] < D[w]))
```

```
{
                  D[w] = D[v] + G.arcs[v][w];
                  Path[w] = v;
    }
    \max = D[0];
    for (i = 1; i < n; i++)
        if (D[i] > max)
             \max = D[i];
             k = i;
        }
    return k;
}
(5)
int visited[MAXSIZE]=false;
int length(ALGragh G, int i, int j, int k)
{
    if (i == j && k = 0)
        return 1;
    else if (k > 0)
    {
         visited[i] = true;
         for (p = G.vertices[i].firstarc;p;p = p->nextarc)
             v = p-\rangle adjvex;
             if (!visited[v])
                  if (length(G, v, j, k - 1))
                      return 1;
         visited[i] = false;
    return 0;
}
```