```
ADALABTEST
                                       18 MISCERIO
 [With Modification] { Priot number of nodes along short-attrating}
# Include Lotdia. h)
 # Include L conioin >
 ecce yourtal sand#
 # Lotine Maxs.
void diskerra (into CMXX CMXX), int a, int startabli,
( mon toi
 int G CHAX ). CHAX ), i i, n, u ;
print f ("Enter no. of vertices:"1"
Scant ( "- 1. 4" , 80) ;
brint & ( .. / u Enter the appoint water you).
for ( = 0 + 3 Ln ; 3+4).
Scat ( .. 1, 7, 80,C, J C? J) !
Print f ("In Enter the starting not: ")"
Scout ( , . + 9, 80)!
di sverta ( Gin, -),
texan o'
fortation to in Crand Cxand a toil stortat
 int cost CMAS CMASS, dictore CMASS, And CMASS,
int visited CMX x2, count, mindistance, nextratini;
for (1=0; 160; 12)
for (=0;360;7+)
if (GC; 3G) == 0)
COST CIDED = INFINITY.
```

```
Saloch
                                     1BM1905218
( [ [ ] [ ] ( ) = 6 ( ) [ ] )
For ( := 0; i < n; i++)
  distance Ci 2 = cost (cotortob) (1)
  Pred Cid - start node;
  visited Cia=0',
 distance [stortnob]=0.
 visited Cotors no de ]= 1',
 Court = 1'1
While Count (n-1)
   modiationce = INF INITY
    (distance Cizemindictance SI! wished Ciz)
F
mindstone = distance Cizi
next note = 1 ,
visited Chextnob ] =1;
For ( := 0; ( Lo; 124 )
if (mod dutonie + rost Constrade) (i) It distanto (i)
if (! visited [i])
Edicatorice Ci ) = mindistance + cost Cost node ICII,
Prod Ci ] = nort note;
Count ++
For (1=0; icn; it )
if (il = stor trob)
```

```
Soilesh
                                       18MB (5218
Print F("Indistance of node of de dod", i, dictorrectif
Prn+ F (" In Path = 1.d" il;
i = ;
?= breg C23;
3 while (: 1 = setort nob);
Print f ("The total number of notice are of. d", count)
```

Output with MOD:

```
■ "C\User\Sailesh Ranjitka\Documents\cblock\bin\Debug\ds.exe"

Enter no. of vertices:3

Enter the adjacency matrix:

1
2
3
4
5
6
7
8
9

Enter the starting node:2

Distance of node0=7
Path=0<-2
Distance of node1=8
Path=1<-2The total number of nodes are 2
Process returned 0 (0x0) execution time: 9.679 s
Press any key to continue.
```

Output without MOD:

```
Enter no. of vertices:3

Enter the adjacency matrix:

1
2
3
4
5
6
7
8
9

Enter the starting node:2

Distance of node0=7
Path=0<-2
Distance of node1=8
Path=1<-2
Process returned 0 (0x0) execution time: 8.646 s
Press any key to continue.
```