

EXPLORER

Welcome

fib.c

Floyds.c

Quick_sort.c

DFS.c

BFS.c

top_sort.c

topological_sort

ADA WORKSPACE (WORKS... lab programs > Floyd's.c > main()

lab programs

BFS.c

BFS.exe

Binary_search.c

Binary_search.exe

DFS.c

DFS.exe

fib.c

fib.exe

Floyds.c

Floyds.exe

GCD_iterative.c

GCD_iterative.exe

GCD_recursive.c

GCD_recursive.exe

insetion_sort.c

insetion_sort.exe

johnson_trotter.c

johnson_trotter.exe

Linear_search.c

Linear_search.exe

Merge_sort.c

Merge_sort.exe

Quick_sort.c

Quick_sort.exe

> OUTLINE

```
9 printf("\nenter the no. of vertices:\t");
10 scanf("%d",&n);
11 printf("\nenter the cost matrix:\n");
12 for(i=1;i<=n;i++)
13 {
14     for(j=1;j<=n;j++)
15     {
16         scanf("%d",&a[i][j]);
17     }
18 }
19 floyds();
20 return 0;
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
PS C:\Users\Pooja K\OneDrive\Desktop\lab programs> cd "c:\Users\Pooja K\OneDrive\Desktop
\lab programs\" ; if ($?) { gcc Floyd's.c -o Floyd's } ; if ($?) { .\Floyd's }
```

```
enter the no. of vertices:      4
```

```
enter the cost matrix:
```

```
1000 1000 5 1000
```

```
3 1000 1000 1000
```

```
1000 7 1000 1
```

```
9 1000 1000 1000
```

```
all pair shortest path matrix is:
```

```
15      12      5      6
```

```
3       15      8      9
```

```
10      7       15     1
```

```
9       21      14     15
```

+ ^ x

powershell

Code

File Edit Selection View Go Run Terminal Help warshalls.c - ada workspace (Workspace) - Visual Studio Code

EXPLORER ... Welcome fib.c Floyd's.c knapsack.c warshalls.c X Quick_sort.c DFS.c BFS.c

ADA WORKSPACE (WORKS... lab programs > C warshalls.c > main()

```
johnson_trotter.exe
C knapsack.c
knapsack.exe
C Linear_search.c
Linear_search.exe
C Merge_sort.c
Merge_sort.exe
C Quick_sort.c
Quick_sort.exe
C quick_sort2.c
quick.exe
C selection_sort.c
selection_sort.exe
tempCodeRunnerFil...
C test.c
test.exe
C tme_analysis.c
top_sort.c
top_sort.exe
topological_sort.cpp
topological_sort.exe
C tower_of_hanoi.c
tower_of_hanoi.exe
C warshalls.c
warshalls.exe
```

```
2 #include<conio.h>
3 int n,a[10][10],p[10][10];
4
5 void warshall(int n,int a[10][10],int p[10][10])
6 {
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
shalls.c -o warshalls } ; if ($?) { .\warshalls }
enter the number of vertices
4
enter the adjacency matrix
1 0 1 1
0 1 1 1
1 1 1 0
1 1 0 0
transitive closure
1      1      1      1
1      1      1      1
1      1      1      1
1      1      1      1
PS C:\Users\Pooja K\OneDrive\Desktop\lab programs> cd "c:\Users\Pooja K\OneDrive\Desktop\lab programs\" ; if ($?) { gcc war
shalls.c -o warshalls } ; if ($?) { .\warshalls }
enter the number of vertices
4
enter the adjacency matrix
0 1 0 0
0 0 0 1
0 0 0 0
1 0 1 0
transitive closure
1      1      1      1
1      1      1      1
0      0      0      0
1      1      1      1
```

+ v ^ x

powershell

Code

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ADA WORKSPACE (WORKS...

lab programs > knapsack.c > main()

lab programs

BFS.c

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knapsack.exe

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Linear_search.exe

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Merge_sort.exe

> OUTLINE

```
26
27 void knapsack()
28 {
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

enter the no. of items: 4

enter the weight of the each item:

5

3

1

2

enter the profit of each item:

10

15

13

20

enter the knapsack's capacity: 10

the output is:

0	0	0	0	0	0	0	0	0	0	0
---	---	---	---	---	---	---	---	---	---	---

0	0	0	0	0	10	10	10	10	10	0
---	---	---	---	---	----	----	----	----	----	---

0	0	0	15	15	15	15	15	25	25	0
---	---	---	----	----	----	----	----	----	----	---

0	13	13	15	28	28	28	28	28	38	0
---	----	----	----	----	----	----	----	----	----	---

0	13	20	33	33	35	48	48	48	48	48
---	----	----	----	----	----	----	----	----	----	----

the optimal solution is 48

the solution vector is:

0	1	1	1
---	---	---	---

+ ^ x

powershell

Code