# 1.Dijikstrs algorithm

```
dıjıkstra's.cpp
 1 #include <iostream>
 using namespace std;
#include #define V 9
                                                                                          © C:\Users\srira\OneDrive\Belga × + ∨
                                                                                         Vertex Distance from Source
       int minDistance(int dist[], bool sptSet[])
                                                                                                                                       0
4
12
19
21
11
9
8
           int min = INT_MAX, min_index;
           for (int v = 0; v < V; v++)
   if (sptSet[v] == false && dist[v] <= min)
        min = dist[v], min_index = v;</pre>
 10
11
12
Process exited after 0.1359 seconds with return value 0 Press any key to continue . . . \mid
            19
20
21 ve
21 void dijkstra(int graph[V][V], int src)
22 = {
 23
 25
26
27
           bool sptSet[V];
for (int i = 0; i < V; i++)
    dist[i] = INT MAX. sptSet[i] = false:</pre>
```

#### 2. Huffman codes

```
Project ∨

Closet pair C:\Users\snra\PychamProjects\closet pair

C:\Users\snra\PychamProjects\closet pair

C:\Users\snra\PychamProjects\closet pair

C:\Users\snra\PychamProjects\closet pair\.venv\Scripts\python.exe" "C:\Users\snra\PychamProjects\closet pair\neq "C:\Users\snria\PychamProjects\closet pair\n
```

## 3. Container loading

```
jikstra's.cpp
#include <bits/stdc++.h>
   using namespace std;
  double cont[1000][1000];
                                                                                            © C:\Users\srira\OneDrive\Belge × + ~
4 void num_of_containers(int n,
                       double x)
5 🖵 {
7
                                                                                          Process exited after 0.1547 seconds with return Press any key to continue . . . \mid
          int count = 0;
         cont[1][1] = x;
for (int i = 1; i <= n; i++) {
    for (int j = 1; j <= i; j++) {
        if (cont[i][j] >= (double)1) {
中日日日
                        count++;
cont[i + 1][j]
4
                             += (cont[i][j]
5
                                  - (double)1)
5
                                / (double)2;
                        cont[i + 1][j + 1]
                             += (cont[i][j]
9
                                  - (double)1)
                                 / (double)2;
1
2
          cout << count;
7 int main()
```

#### 4. Minimum spanning tree

```
#Include <stdio.h>
#Include <stdio.h

#Include <std
```

## 5.Kruskals algorithm

### 6.Boruvkas algorithm

```
bonuvka.cpp

#include <stdio.h>
#include <stdiib.h>

#finclude in MST

#finclude
```