


# Dij kohan Algoritmen

# Barned Oys

1 ВМІСНОБ

Deemed 

```
import sys
class Graph():
```

def \_\_init\_\_(self, vector):

Soft. V = Vesteras

Soft. graph = [ [0 for column in range(vertices)]  
for row in range(vertices)]

def paint solution (self, list):

```
print("Vertex distance from source:")
```

point ("Vertex cost")

for node  $p_n$  range (Self, V):

```
print(" ", node, " ", list[node])
```

~~def~~ def minDistance (self, dist, split):

$\min = \text{Sqr. maximize}$

for  $v$  in range (set,  $v$ ):

if dist[v] < min and SptSet[v] == false;

$$\min = \text{dist}[v]$$
$$\text{anion} - \text{index} = V$$

Letom min-index.

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Planned



def dijkstra (self, src):

dist = [self.maxsize] \* self.v

dist[src] = 0

spiset = [False] \* self.v

for count in range(self.v):

u = self.minDistance (dist, spiset)

spiset[u] = True

for v in range(self.v):

if self.graph[u][v] > 0 and spiset[v] == False and

dist[v] > dist[u] + self.graph[u][v]:

dist[v] = dist[u] + self.graph[u][v]

self.printSolution (dist)

print ("Enter the No. of Vertex ", end=" ")

~~n = input()~~

n = int(input())

g = Graph(n)

print ("Enter matrix")

matrix = []

(2)

Pranav



for i in range(n):

row = []

row = list(map(int, input().split(" ")))

matrix.append(row)

g.graph = matrix

print("Enter src vertex")

src = int(input())

print()

g.dijkstra(src)

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Peam