```
Obscevation:
```

```
class Graph:
     det -- Init -- (self, n):
            self. matrix. =[]
self. n = n
      def addredge (self, v.v.w):
              self. mateix. append ((v,v,w))
      de paint table (self, diet, sone):
             paent ("Vector Touble of & 3" toumat (cha (ord (a)) + sac))
           paint ("foftelig". Foormat ("Dest, "cost"))
          for i in range (self. n):
                paint ("fo? Ist) ! farmat (chr (oad (A') +i), dist[i]))
     det algos (sell, sorc);
        dist = [99] * self.m
         distisme] =0
    fag in range (self. 31-1):
        fas (v,v,w in self. mataix:
            of diet [v]! = 99 and diet [v] + w = diet [v]:
                    diet[v] = diet[v]+w
```

self. parentalla (dust, sac)

```
del maino:
     mataex = []
      paint (" Entra no. of Nodes').
       n = Tht(Poput())
      paint ("Entor the Adjacency materia"):
       face i in nange (m):
           m= list (map( int, input().split (""))",
           matrix, appendin)
        g = Netwask(n)
       fax T. in stange (n):
           faaj in sange(n):

materix[:][j]==1:

g.addlink(i,j,1)
          far - in range (n):
               g. algooic-)
      main():
```