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```
void dijkstra (int[][] adj , int startindex)
{
    int nvertices = adj [0]. length;
    int [] shortest Distance = new int [nvertices]

    for (int vertex = 0; vertex Index <nvertices ; vertex++)
    {
        shortest Dist [vertex] = Max
            added [vertex Index] = false;
    }
    shortest Distances [start vertex] = 0

    for (int i → 1 to nvertices)
    { nearestVertex = -1
    int shortestDistance = max
     for (int max = 0 vertexIndex [nvertex] < shortest Distance)
      {  nearest Vertex = vertex Index;
         Shortest Distance = shortestDistances [vertex Index]
      }
    }
added [nearestVerten] = true;


}


void printdol (    )
{ int nvertin = distance.length.
  dont ("Verten\t Distance \t Path");

   for ( int i =0 ;i< nVerte ; i++)
   { if ( i != startverten)
      sout  ("\n" start Verten + " + - ))

      sout  ( distance [verten Inden] + " \t \t" );
            print path (verten, parents);


   }

  }
```