







## DI Saa

```

from queue import PriorityQueue

v = 14

graph = [[] for i in range(v)]

def bestFirstSearch(actualSrc, target, n):
    visited = [False]*n
    pq = PriorityQueue()
    pq.put((0, actualSrc))
    visited[actualSrc] = True
    while pq.empty() == False:
        u = pq.get()[1]
        print(u, end=' ')
        if u == target:
            break
        for v, c in graph[u]:
            if visited[v] == False:
                visited[v] = True
                pq.put((c, v))
    print()

def addEdge(x, y, cost):
    graph[x].append((y, cost))
    graph[y].append((x, cost))

addEdge(0, 1, 3)
addEdge(0, 2, 6)
addEdge(0, 3, 5)
addEdge(1, 4, 9)
addEdge(1, 5, 8)
addEdge(2, 6, 12)

```



