```
from queue import PriorityQueue

v = 14
graph = [[] for i in range(v)]

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

def bestFitSearch(source, target, n):
    visited = [False] * n
    pq = PriorityQueue()
    pq.put((0, source))
    visited[source] = 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()

# Adding edges to the graph
addedge(0, 1, 3)
addedge(0, 2, 6)
addedge(0, 3, 5)
addedge(1, 4, 1)
addedge(1, 5, 8)
addedge(2, 6, 12)
addedge(2, 7, 14)
addedge(3, 8, 2)
addedge(8, 9, 9)
addedge(8, 10, 6)
addedge(9, 11, 1)
addedge(9, 12, 10)
addedge(9, 13, 2)

source = 0
target = 9
```

```
# Running the Best Fit Search algorithm
bestFitSearch(source, target, v)
```

Output :

0 1 4 3 8 2 10 5 9