Shriharsha A Vaidhyam

Quiz 13

Source code:

```
def binPack(weight, length, capacity):
    res = 0
    x = [0]*length
    for i in range(length):
        j = 0
        while( j < res):</pre>
            if (x[j] >= weight[i]):
                x[j] = x[j] - weight[i]
                break
            j+=1
        if (j == res):
            x[res] = capacity - weight[i]
            res= res+1
    return res
weight = [0.1, 0.26, 0.35, 0.4, 0.5, 0.6, 0.75, 0.99]
capacity = 1
length = len(weight)
print("Number of bins required : ",binPack(weight, length, capacity))
```

Output:

 $harshavaidhyam@Harshas-MacBook-Pro~quiz~13~\%~cd~/Users/harshavaidhyam/Desktop/Pitt\term-1/Algo\Design/quiz\13~;~/usr/bin/env~/usr/local/bin/python3~/Users/harshavaidhyam/.vscode/extensions/ms-python-python-$

2022.16.1/pythonFiles/lib/python/debugpy/adapter/../../debugpy/launcher 55580 -- /Users/harshavaidhyam/Desktop/Pitt\ term-1/Al go\ Design/quiz\ 13/q13.py

Number of bins required: 5