In [15]:
```
d=[]
with open('sample_input.txt','r') as f:
    for line in f:
        if not line.strip():
            continue
        else:
            d.append(line.strip())
d
```

Out[15]:
```
['Number of employees: 4',
 'Goodies and Prices:',
 'Fitbit Plus: 7980',
 'IPods: 22349',
 'MI Band: 999',
 'Cult Pass: 2799',
 'Macbook Pro: 229900',
 'Digital Camera: 11101',
 'Alexa: 9999',
 'Sandwich Toaster: 2195',
 'Microwave Oven: 9800',
 'Scale: 4999']
```

In [16]:
```
k=int(d[0].split(': ')[1])
```

In [17]:
```
k
```

Out[17]:
```
4
```

In [18]:
```
goodies={}
prices=[]
for i in d[2:]:
    name,price=i.split(': ')
    prices.append(int(price))
    goodies[name]=int(price)

goodies
```

Out[18]:
```
{'Fitbit Plus': 7980,
 'IPods': 22349,
 'MI Band': 999,
 'Cult Pass': 2799,
 'Macbook Pro': 229900,
 'Digital Camera': 11101,
 'Alexa': 9999,
 'Sandwich Toaster': 2195,
 'Microwave Oven': 9800,
 'Scale': 4999}
```

In [19]:
```
# prices
```

In [20]:
```
def minimumDiff(prices,n,k):
    result = +345678923
    for i in range(len(prices)):
        min_index = i
        for j in range(i+1, len(prices)):
            if prices[min_index] > prices[j]:
                min_index = j
        prices[i], prices[min_index] = prices[min_index], prices[i]



    for i in range(n-k+1):
        if result>prices[i+k-1] - prices[i]:
            p=i
            q=i+k-1
            result=prices[i+k-1] - prices[i]

    sub_arr=prices[p:q+1]
    return result,sub_arr

res,sub_arr=minimumDiff(prices,len(prices), k)
# print(res)
# print(sub_arr)
```

In [21]:
```
result_dict = {}
print("The goodies selected for distribution are:")
print()
for i in sub_arr:
    for k in goodies.keys():
        if goodies[k] == i:
            result_dict[k] = i
            print(k+":",i)

print()
print("And the difference between the chosen goodie with highest price and th
```

```
The goodies selected for distribution are:

Fitbit Plus: 7980
Microwave Oven: 9800
Alexa: 9999
Digital Camera: 11101

And the difference between the chosen goodie with highest price and the low
est price is 3121
```