## Coin Counting using Greedy Method

```
Code:
#input
print("Enter Value of money : ")
coins = list(map(int, input().split()))
coins.sort()
amount = int(input("Enter the amount : "))
def greedycoin(c, amt):
  final = []
  a = amount
  while a>0:
     if len(coins)==0:
       print("Transaction not Possible")
       break
     m = coins.pop()
     if a>=m:
       num = int(a/m)
       final.append([m,num])
       a=a%m
  return final
#call
f=greedycoin(coins, amount)
#display
tc=0
for i in f:
  print(i[0], x ,i[1], = i, int(i[0]*i[1]))
  tc+=i[1]
print("Total Coins : ",tc)
```

## **Output:**

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```
Python 3.6.1 (default, Dec 2015, 13:05:11)
[GCC 4.8.2] on linux
Enter Value of money:
1 2 5 10 20 100 500 2000
Enter the amount: 245678
2000 x 122 = 244000
500 x 3 = 1500
100 x 1 = 100
20 x 3 = 60
10 x 1 = 10
5 x 1 = 5
2 x 1 = 2
1 x 1 = 1
Total Coins: 133
```