

## Lab-6

**Name:** E. Jayanth reddy

**Reg.no:**19BCE7548

### 1. Money Change:

#### Code:

```
import java.util.*;

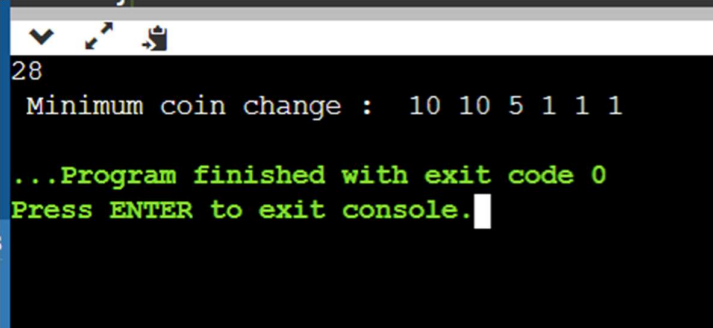
class Main
{
    static int coins[] = {1,5,10};
    static int n = coins.length;
    static void findMin(int A)
    {
        Vector<Integer> mincoins = new Vector<>();
        for (int i = n - 1; i >= 0; i--)
        {
            while (A >= coins[i])
            {
                A -= coins[i];
                mincoins.add(coins[i]);
            }
        }
        for (int i = 0; i < mincoins.size(); i++)
        {
            System.out.print(" " + mincoins.elementAt(i));
        }
    }
}
```

```

}
public static void main(String[] args)
{
    int n ;
    Scanner in=new Scanner(System.in);
    n=in.nextInt();
    System.out.print(" Minimum coin change : " );
    findMin(n);
}
}

```

### Output:



The screenshot shows a console window with a black background and white and green text. The output is as follows:

```

28
Minimum coin change : 10 10 5 1 1 1
...Program finished with exit code 0
Press ENTER to exit console.

```

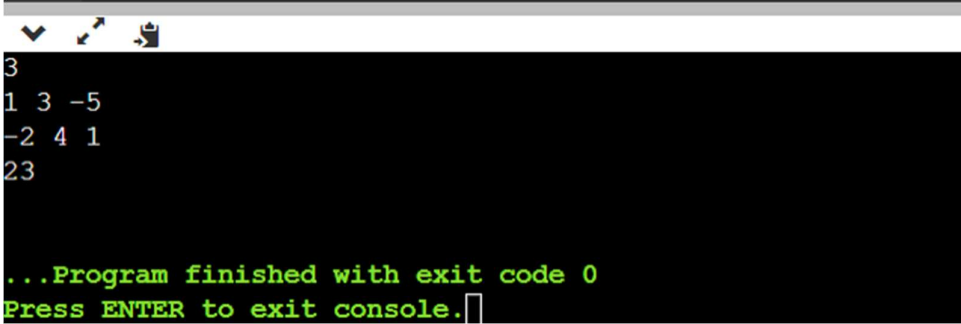
## 2. Maximum Advertisement Revenue:

```

n = int(input())
a = [int(i) for i in input().split()]
b = [int(i) for i in input().split()]
a.sort()
b.sort()
ans = sum([a[i]*b[i] for i in range(n)])
print(ans)

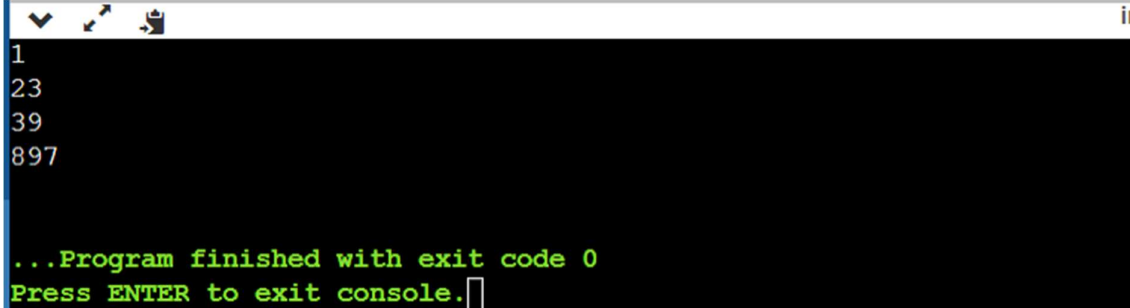
```

## Output:



```
3
1 3 -5
-2 4 1
23

...Program finished with exit code 0
Press ENTER to exit console.
```



```
1
23
39
897

...Program finished with exit code 0
Press ENTER to exit console.
```