



Coding Challenge #13 (Question)

Tyler had a list of elements with him and he needs a C developer to extract the even numbers from that list and know the sum of all those even numbers. Write an application program according to Tyler's requirements.

INPUT FORMAT:

- 1. 1st line of input takes the size of list of elements(n)
- 2. 2nd line of input takes the elements for the list.

OUTPUT FORMAT:

Application should extract the even numbers from the list and put the total sum as output to Tyler.

SAMPLE INPUT 0:

6

124689

SAMPLE OUTPUT 0:

20

EXPLANATION:

Even numbers in the list are 2,4,6,8

Sum of them = 2+4+6+8=20

SAMPLE INPUT 1:

10

12 2 3 21 24 25 27 23 5 7

SAMPLE OUTPUT 1:

38

EXPLANATION:

Even numbers in the list are 12,2,24 Sum of them = 12+2+24=38



Coding Challenge #13 (C Solution)

```
#include <stdio.h>
int main()
       printf("Enter the size of array\n");
       int size;
       scanf("%d",&size);
       int array[size];
       printf("Enter the elements\n");
       for(int i=0;i<size;i++){
               scanf("%d",&array[i]);
       int sum=0;
       for(int i=0;i<size;i++){
               if(array[i]%2==0)
                      sum=sum+array[i];
               else
                      continue;
       printf("%d",sum);
```



Coding Challenge #13 (JAVA Solution)

```
import java.util.*;
public class EvenSum
       public static void main(String[] args)
               Scanner input = new Scanner(System.in);
               System.out.println("Enter the size of array");
               int size = input.nextInt();
               int[] array = new int[size];
               System.out.println("Enter the elements");
               for(int i=0;i<size;i++){</pre>
                       array[i]=input.nextInt();
               int sum=0;
               for(int i=0;i<size;i++){
                       if(array[i]%2==0)
                              sum=sum+array[i];
                       else
                              continue;
               System.out.println(sum);
       }
}
```



Coding Challenge #14 (Question)

User wants to list out all the Armstrong numbers in the interval given. Develop an application program to print the Armstrong numbers between the given interval.

ARMSTRONG NUMBER: If the sum of cubes of each digit is equal to the number itself, then it is said to be an Armstrong number.

E,g 153 is an Armstrong number as 13+53+33=153, the number itself.

INPUT FORMAT:

User must give the intervals for finding the Armstrong numbers in between.

OUTPUT FORMAT:

Print all the Armstrong numbers between x and y

SAMPLE INPUT 0:

100 200

SAMPLE OUTPUT 0:

153

SAMPLE INPUT 1:

10 500

SAMPLE OUTPUT:

153 370 371 407



Coding Challenge #14 (C Solution)

```
#include <stdio.h>
int main()
       printf("Enter the start and end\n");
       int start, end;
       scanf("%d,%d",&start,&end);
       for(int i=start;i<end;i++){</pre>
               int ch,r,sum=0;
               ch=i;
               while(ch!=0){
                       r=ch%10;
                       sum = sum + (r*r*r);
                       ch=ch/10;
               }
               if(sum==i)
                       printf("%d ",i);
       }
}
```



Coding Challenge #14 (JAVA Solution)

```
import java.util.*;
public class ArmstrongList
       public static void main(String[] args)
               Scanner input = new Scanner(System.in);
               System.out.println("Enter the start and end");
              int start = input.nextInt();
               int end = input.nextInt();
               for(int i=start;i<end;i++){
                      int ch,r,sum=0;
                      ch=i;
                      while(ch!=0){
                              r=ch%10;
                              sum = sum + (r*r*r);
                              ch=ch/10;
                      if(sum==i)
                              System.out.print(i + " ");
       }
```