

swapping of no

class Demo

{

Scanner sc = new Scanner(System.in);

int a = sc.nextInt();

int b = sc.nextInt();

a = a + b;

b = a - b;

a = a - b;

System.out.println("a = " + a);

System.out.println("b = " + b);

}

class Demo

{

static void swapping(int a, int b)

{

a = a + b;

b = a - b;

a = a - b;

System.out.println("a = " + a);

System.out.println("b = " + b);

}

import java.util.Scanner;

class Demo

{

Scanner sc = new Scanner(System.in);

int a = sc.nextInt();

int b = sc.nextInt();

a = a + b;

b = a - b;

a = a - b;

System.out.println("a = " + a);

System.out.println("b = " + b);

}

int a = sc.nextInt();

int b = sc.nextInt();

a = a + b;

b = a - b;

a = a - b;

System.out.println("a = " + a);

System.out.println("b = " + b);

}

int a = sc.nextInt();

int b = sc.nextInt();

a = a + b;

b = a - b;

a = a - b;

System.out.println("a = " + a);

System.out.println("b = " + b);

}

int a = sc.nextInt();

int b = sc.nextInt();

a = a + b;

b = a - b;

a = a - b;

System.out.println("a = " + a);

System.out.println("b = " + b);

}

int a = sc.nextInt();

int b = sc.nextInt();

a = a + b;

b = a - b;

a = a - b;

System.out.println("a = " + a);

System.out.println("b = " + b);

}

class Demo

```
{  
    PSVM (-)  
    {  
        int a=10;  
        int b=20;  
        int temp;  
        temp=a;  
        a=b;  
        b=temp;  
        Sop(a);  
        Sop(b);  
    }  
}
```

class Demo

```
{  
    static void number(int a, int b)  
    {  
        int temp;  
        temp=a;  
        a=b;  
        b=temp;  
        Sop(a);  
        Sop(b);  
    }  
    PSVM (-)  
    {  
        number(10, 20);  
    }  
}
```

import java.util.Scanner;

class Demo

```
{  
    PSVM (-)  
    {  
        Scanner sc=new Scanner(System.in);  
        sop("Enter the no");  
        int a=sc.nextInt();  
        sop("Enter the no");  
        int b=sc.nextInt();  
        int temp;  
        temp=a;  
        a=b;  
        b=temp;  
        Sop(a);  
        Sop(b);  
    }  
}
```



class Demo

{  
    psvm (-)

    {  
        int [] arr = {1, 2, 3, 4, 5};  
        int sum = 0;

        for (int i = 0; i < arr.length; i++)

            sum = sum + arr[i];

    }  
    sop (sum);  
}

class Demo

{ static void array (int [] arr) }

    {  
        int sum = 0;

        for (int i = 0; i < arr.length; i++)

            sum = sum + arr[i];

    }

    psvm (-)

    {  
        int [] arr = {1, 2, 3, 4, 5};  
        array (arr);  
    }

}

import java.util.Scanner;

class Demo

{  
    psvm (-)

    Scanner sc = new Scanner (System.in);

    sop ("Enter the size");

    int size = sc.nextInt();

    int [] arr = new int [size];

    sop ("Enter the elements");

    for (int i = 0; i < arr.length; i++)

        arr[i] = sc.nextInt();

    int sum = 0;

    for (int i = 0; i < arr.length; i++)

        sum = sum + arr[i];

    sop (sum);  
}

import java.util.Scanner;

class Demo

{ static int array (int [] arr) }

    {  
        int sum = 0;

        for (int i = 0; i < arr.length; i++)

            sum = sum + arr[i];

    }

    return sum;  
}

psvm (-)

Scanner sc = new Scanner (System.in);

    sop ("Enter the size");

    int size = sc.nextInt();

    int [] arr = new int [size];

    sop ("Enter the array elements");

    for (int i = 0; i < arr.length; i++)

        arr[i] = sc.nextInt();

    sop (array (arr));  
}

}

String rev  
class Demo  
{  
 public static void main(String args[]){}

```
        String str = "Hello World";  
        String rev = "";  
        for (int i=0; i<str.length(); i++)  
        {  
            rev = rev + str.charAt(i);  
        }  
        System.out.println(rev);  
    }  
}
```

class Demo

```
{  
    static void reverse (String str)  
    {  
        String rev = "";  
        for (int i=0; i<str.length(); i++)  
        {  
            rev = rev + str.charAt(i);  
        }  
        System.out.println(rev);  
    }  
}
```

public static void main(String args[]){}

```
    reverse ("Hello World");  
}
```

import java.util.Scanner;

class Demo

{  
 public static void main(String args[]){}

```
        Scanner sc = new Scanner(System.in);  
        System.out.println("Enter the string");  
        String str = sc.next();  
        String rev = "";  
        for (int i=0; i<str.length(); i++)  
        {  
            rev = rev + str.charAt(i);  
        }  
        System.out.println(rev);  
    }  
}
```

import java.util.Scanner;

class Demo

{  
 static String reverse (String str)

```
    {  
        String rev = "";  
        for (int i=0; i<str.length(); i++)  
        {  
            rev = rev + str.charAt(i);  
        }  
        return rev;  
    }  
}
```

public static void main(String args[]){}

```
    Scanner sc = new Scanner(System.in);  
    System.out.println("Enter the string");  
    String str = sc.next();  
    System.out.println(reverse(str));  
}
```

}

}

```
class Demo
```

```
{  
    public static void main(String args[]){  
        String str = "Hello World";  
        System.out.println(str);  
    }  
}
```

```
String str = "Hello World";
```

```
String rev = "";
```

```
for (int i=0; i<str.length(); i++)
```

```
{  
    rev = rev + str.charAt(i);  
}
```

```
}  
System.out.println(rev);  
}
```

```
class Demo
```

```
{  
    static void reverse(String str)
```

```
{  
    String rev = "";
```

```
for (int i=0; i<str.length()-1; i++)
```

```
{  
    rev = rev + str.charAt(i);  
}
```

```
}  
System.out.println(rev);  
}
```

```
}  
public static void main(String args[]){  
    reverse("Hello World");  
}
```

```
String str = "Hello World";
```

```
String rev = "";
```

```
for (int i=0; i<str.length()-1; i++)
```

```
{  
    rev = rev + str.charAt(i);  
}
```

```
}  
System.out.println(rev);  
}
```

```
}
```

```
import java.util.Scanner;
```

```
class Demo
```

```
{  
    public static void main(String args[]){  
        Scanner sc = new Scanner(System.in);  
        System.out.println("Enter the string");  
        String str = sc.nextLine();  
        System.out.println(str);  
    }  
}
```

```
Scanner sc = new Scanner(System.in);
```

```
System.out.println("Enter the string");
```

```
String str = sc.nextLine();
```

```
System.out.println(str);
```

```
for (int i=0; i<str.length()-1; i++)
```

```
{  
    rev = rev + str.charAt(i);  
}
```

```
}  
System.out.println(rev);  
}
```

```
System.out.println(rev);  
}
```

```
}
```

```
import java.util.Scanner;
```

```
class Demo
```

```
{  
    public static void main(String args[]){  
        Scanner sc = new Scanner(System.in);  
        System.out.println("Enter the string");  
        String str = sc.nextLine();  
        System.out.println(str);  
    }  
}
```

```
Scanner sc = new Scanner(System.in);
```

```
System.out.println("Enter the string");
```

```
String str = sc.nextLine();
```

```
for (int i=0; i<str.length()-1; i++)
```

```
{  
    rev = rev + str.charAt(i);  
}
```

```
}  
System.out.println(rev);  
}
```

```
System.out.println(rev);  
}
```

```
}
```

```
Scanner sc = new Scanner(System.in);
```

```
System.out.println("Enter the string");
```

```
String str = sc.nextLine();
```

```
System.out.println(str);
```

```
for (int i=0; i<str.length()-1; i++)
```

```
{  
    rev = rev + str.charAt(i);  
}
```

```
}  
System.out.println(rev);  
}
```

```
System.out.println(rev);  
}
```

```
}
```

## String palindrome:

class Demo

{

String str = "MAMMA";

String rev = "";

for (int i=0; i<str.length()-1; i++)

rev = rev + str.charAt(i);

} if (str.equals(rev))

{ System.out.println("It is a palindrome");

else { System.out.println("It is not a palindrome");

}

class Demo

{ static void reverse(String str)

String rev = "";

for (int i=0; i<str.length()-1; i++)

rev = rev + str.charAt(i);

} if (str.equals(rev))

{ System.out.println("It is a palindrome");

else { System.out.println("It is not a palindrome");

}

reverse()

{ reverse("MAMMA");

}

import java.util.Scanner;

class Demo

{

String (-)

Scanner sc = new Scanner(System.in);

sop("Enter a string");

String str = sc.nextLine();

String rev = "";

for (int i=0; i<str.length()-1; i++)

rev = rev + str.charAt(i);

} if (str.equals(rev))

{ System.out.println("It is a palindrome");

else { System.out.println("It is not a palindrome");

}

import java.util.Scanner;

class Demo

{

static String reverse(String str)

String rev = "";

for (int i=0; i<str.length()-1; i++)

rev = rev + str.charAt(i);

} if (str.equals(rev))

{ System.out.println("It is a palindrome");

else { System.out.println("It is not a palindrome");

}

} psvm(-)

Scanner sc = new Scanner(System.in);

sop("Enter the string");

sop("Reverse(" + sc.nextLine() + ")");

}

}

```
class Demo
```

```
{
```

```
    public static void main(String[] args)
```

```
    {
```

```
        String str = "Anna";
```

```
        String rev = "";
```

```
        for (int i = 0; i < str.length() - 1; i++)
```

```
        {
```

```
            rev = rev + str.charAt(i);
```

```
        }
```

```
        if (str.equals(rev))
```

```
        {
```

```
            System.out.println("It is a Palindrome");
```

```
        } else {
```

```
            System.out.println("It is not a Palindrome");
```

```
        }
```

```
    }
```

```
class Demo
```

```
{
```

```
    static void reverse(String str)
```

```
    {
```

```
        for (int i = 0; i < str.length(); i++)
```

```
        {
```

```
            rev = rev + str.charAt(i);
```

```
        }
```

```
        if (str.equals(rev))
```

```
        {
```

```
            System.out.println("It is a Palindrome");
```

```
        } else {
```

```
            System.out.println("It is not a Palindrome");
```

```
        }
```

```
    }
```

```
    public static void main(String[] args)
```

```
    {
```

```
        reverse(str);
```

```
    }
```

```
import java.util.Scanner;
```

```
class Demo
```

```
{
```

```
    public static void main()
```

```
    {
```

```
        Scanner sc = new Scanner(System.in);
```

```
        System.out.println("Enter a string");
```

```
        String str = sc.nextLine();
```

```
        String rev = "";
```

```
        for (int i = 0; i < str.length() - 1; i++)
```

```
        {
```

```
            rev = rev + str.charAt(i);
```

```
        }
```

```
        rev = rev + str.charAt(i);
```

```
    }
```

```
    if (str.equals(rev))
```

```
    {
```

```
        System.out.println("It is a Palindrome");
```

```
    } else {
```

```
        System.out.println("It is not a Palindrome");
```

```
    }
```

```
}
```

```
import java.util.Scanner;
```

```
class Demo
```

```
{
```

```
    static String reverse(String str)
```

```
    {
```

```
        String rev = "";
```

```
        for (int i = 0; i < str.length() - 1; i++)
```

```
        {
```

```
            rev = rev + str.charAt(i);
```

```
        }
```

```
        if (str.equals(rev))
```

```
        {
```

```
            System.out.println("It is a Palindrome");
```

```
        } else {
```

```
            System.out.println("It is not a Palindrome");
```

```
        }
```

```
    }
```

```
    public static void main()
```

```
    {
```

```
        reverse(str);
```

```
    }
```

```
}
```

```
Scanner sc = new Scanner(System.in);
```

```
System.out.println("Enter the string");
```

```
String str = sc.nextLine();
```

```
String rev = sc.nextLine();
```

```
if (str.equals(rev))
```

```
{
```

```
    System.out.println("It is a Palindrome");
```

```
} else {
```

```
    System.out.println("It is not a Palindrome");
```

```
}
```

number reverse  
class Sample

{  
psvm (-)

{  
int no = 143;

{  
int rev = 0;

for (no != 0) {

{  
int rem = no % 10;

{  
rev = (rev \* 10) + rem;

{  
no = no / 10;

{  
sop(rev);

}  
}

class Demo {

{  
static void reverse(int no)

{  
int rev = 0;

while (no != 0) {

{  
int rem = no % 10;

{  
rev = (rev \* 10) + rem;

{  
no = no / 10;

{  
sop(rev);

{  
sop("Enter a number");

{  
psvm (-)

{  
reverse(143);

}  
}

import java.util.Scanner;  
class Sample  
{  
psvm (-)  
{  
Scanner sc = new Scanner(System.in);  
sop("Enter the no");  
int no = sc.nextInt();  
int rev = 0;  
while (no != 0) {  
int rem = no % 10;  
rev = (rev \* 10) + rem;  
no = no / 10;  
}  
sop(rev);  
}  
}

import java.util.Scanner;  
class Demo

{  
static int reverse(int no)

{  
int rev = 0;

while (no != 0) {

{  
int rem = no % 10;

{  
rev = (rev \* 10) + rem;

{  
no = no / 10;

{  
return rev;

{  
psvm (-)

{  
Scanner sc = new Scanner(System.in);

{  
sop("Enter the no");

{  
int no = sc.nextInt();

{  
sop(reverse(no));

{  
}

{  
}

```
class Demo  
{  
    public static void main(String[] args)  
    {  
        int no=143;  
        int rev=0;  
        while(no!=0)  
        {  
            int rem=no%10;  
            rev=(rev*10)+rem;  
            no=no/10;  
        }  
        System.out.println("Reversed number is "+rev);  
    }  
}
```

```
class Demo  
{  
    static void number(int no)  
    {  
        int rev=0;  
        while(no!=0)  
        {  
            int rem=no%10;  
            rev=(rev*10)+rem;  
            no=no/10;  
        }  
        System.out.println("Reversed number is "+rev);  
    }  
}
```

```
import java.util.Scanner;  
class Demo  
{  
    public static void main(String[] args)  
    {  
        Scanner sc=new Scanner(System.in);  
        System.out.print("Enter the no");  
        int no=sc.nextInt();  
        int rev=0;  
        while(no!=0)  
        {  
            int rem=no%10;  
            rev=(rev*10)+rem;  
            no=no/10;  
        }  
        System.out.println("Reversed number is "+rev);  
    }  
}
```

```
import java.util.Scanner;  
class Demo  
{  
    static int number(int no)  
    {  
        int rev=0;  
        while(no!=0)  
        {  
            int rem=no%10;  
            rev=(rev*10)+rem;  
            no=no/10;  
        }  
        return rev;  
    }  
    public static void main(String[] args)  
    {  
        Scanner sc=new Scanner(System.in);  
        System.out.print("Enter the no");  
        int no=sc.nextInt();  
        System.out.println("Reversed number is "+number(no));  
    }  
}
```

## number palindrome

class Demo

{  
psvm (-)

{  
int no=143;

int copy=no;

int rev=0;

while (no!=0)

{  
int rem=no%10;

rev=(rev\*10)+rem;

no=no/10;

}  
if (copy==rev)

{  
sop("palindrome");

}  
else {sop("not a palindrome");

}  
}

class Demo

{ static void number(int no)

{  
int copy=no;

int rev=0;

while (no!=0)

{  
int rem=no%10;

rev=(rev\*10)+rem;

no=no/10;

}  
if (copy==rev)

{  
sop("palindrome");

}  
else {sop("not a palindrome");

}  
}

psvm (-)

number(143);

}

import java.util.Scanner;  
class Demo

{ perm (-)

Scanner sc = new Scanner(System.in);

sop("Enter the no");

int no = sc.nextInt();

int copy = no;

int rev = 0;

while (no!=0)

{ int rem = no%10;

rev=(rev\*10)+rem;

no=no/10;

} if (copy == rev)

{  
sop("palindrome");

else {sop("not a palindrome");

}  
}

static void number(int no)

{  
int rev=0;

int copy=no;

while (no!=0)

{  
int rem = no%10;

rev=(rev\*10)+rem;

no=no/10;

} if (copy == rev)

{  
sop("palindrome");

else {sop("not a palindrome");

}  
}

Scanner sc = new Scanner(System.in);

sop("Enter the no");

sop(number(sc.nextInt()));

}  
}

### class Demo

```
{ PSVM (-)
```

```
{ int no=143;
```

```
int copy=no;
```

```
int rev=0;
```

```
while(no!=0)
```

```
{
```

```
int rem=no%10;
```

```
rev=(rev*10)+rem;
```

```
no=no/10;
```

```
}
```

```
if(copy==rev)
```

```
sop("ee palindrome");
```

```
else{sop("not a palindrome");}
```

```
}
```

```
class Demo
```

```
{ static void number(int no)
```

```
{
```

```
int copy=no;
```

```
int rev=0;
```

```
while(no!=0)
```

```
{
```

```
int rem=no%10;
```

```
rev=(rev*10)+rem;
```

```
no=no/10;
```

```
}
```

```
if(copy==rev)
```

```
sop("ee palindrome");
```

```
}
```

```
else
```

```
{sop("not a palindrome");}
```

```
}
```

```
PSVM (-)
```

```
{
```

```
number(143);
```

```
}
```

```
import java.util.Scanner;
```

```
class Demo
```

```
{ PSVM (-)
```

```
{ Scanner sc=new Scanner(System.in);
```

```
sop("Enter the no");
```

```
int no=sc.nextInt();
```

```
int copy=no;
```

```
int rev=0;
```

```
while(no!=0)
```

```
{
```

```
int rem=no%10;
```

```
rev=(rev*10)+rem;
```

```
no=no/10;
```

```
}
```

```
if(copy==rev)
```

```
sop("ee palindrome");
```

```
else{sop("not a palindrome");}
```

```
}
```

```
import java.util.Scanner;
```

```
class Demo
```

```
{ static void number(int no)
```

```
{
```

```
int copy=no;
```

```
int rev=0;
```

```
while(no!=0)
```

```
{
```

```
int rem=no%10;
```

```
rev=(rev*10)+rem;
```

```
no=no/10;
```

```
}
```

```
if(copy==rev)
```

```
sop("ee palindrome");
```

```
}
```

```
PSVM (-)
```

```
{
```

```
number(143);
```

```
}
```

## number sum

### class Demo

```
{ psvm (-)
```

```
int no = 143;
```

```
int sum = 0;
```

```
while (no != 0)
```

```
{ int rem = no % 10;
```

```
sum = sum + rem;
```

```
no = no / 10;
```

```
} sop (sum);
```

```
}
```

### class Demo

```
{ static void number (int no)
```

```
{ int sum = 0;
```

```
while (no != 0)
```

```
{ int rem = no % 10;
```

```
sum = sum + rem;
```

```
no = no / 10;
```

```
} sop (sum);
```

```
}
```

```
psvm (-)
```

```
{ number (143);
```

```
}
```

```
}
```

```
import java.util.Scanner;
```

### class Sample

```
{ psvm (-)
```

```
Scanner sc = new Scanner (System.in);
```

```
sop ("Enter the no");
```

```
int no = sc.nextInt();
```

```
int sum = 0;
```

```
while (no != 0)
```

```
{ int rem = no % 10;
```

```
sum = sum + rem;
```

```
no = no / 10;
```

```
} sop (sum);
```

```
}
```

```
import java.util.Scanner;
```

### class Demo

```
{ static int number (int no)
```

```
{ int sum = 0;
```

```
while (no != 0)
```

```
{ int rem = no % 10;
```

```
sum = sum + rem;
```

```
no = no / 10;
```

```
} return sum;
```

```
}
```

```
psvm (-)
```

```
{ Scanner sc = new Scanner (System.in);
```

```
sop ("Enter the no");
```

```
sop (number (sc.nextInt()));
```

```
}
```

```
}
```

```

class Demo
{
    public static void main(String[] args)
    {
        int no=143;
        int sum=0;
        while(no!=0)
        {
            int rem=no%10;
            sum+=sum+rem;
            no=no/10;
        }
        System.out.println(sum);
    }
}

```

```

class Demo
{
    static void number(int no)
    {
        int sum=0;
        while(no!=0)
        {
            int rem=no%10;
            sum+=sum+rem;
            no=no/10;
        }
        System.out.println(sum);
    }
}

```

```

import java.util.Scanner;
class Demo
{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the no");
        int no=sc.nextInt();
        int sum=0;
        while(no!=0)
        {
            int rem=no%10;
            sum+=sum+rem;
            no=no/10;
        }
        System.out.println(sum);
    }
}

import java.util.Scanner;
class Demo
{
    static int number(int no)
    {
        int sum=0;
        while(no!=0)
        {
            int rem=no%10;
            sum+=sum+rem;
            no=no/10;
        }
        return sum;
    }
}

public class Main
{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the no");
        int no=sc.nextInt();
        System.out.println(number(no));
    }
}

```

```

number mul
class Demo
{
    psvm(-)
    {
        int no=143;
        int mul=1;
        while (no!=0)
        {
            int rem=no%10;
            mul=mul*rem;
            no=no/10;
        }
        sop(mul);
    }
}

3
class Demo
{
    static void number(int no)
    {
        int mul=1;
        while (no!=0)
        {
            int rem=no%10;
            mul=mul*rem;
            no=no/10;
        }
        sop(mul);
    }
    psvm(-)
    {
        number(143);
    }
}

```

import java.util.Scanner;

class Demo

{

psvm(-)

{

Scanner sc=new Scanner(System.in);

sc("Enter the no");

int no=sc.nextInt();

int mul=1;

while (no!=0)

{

int rem=no%10;

mul=mul\*rem;

no=no/10;

}

sop(mul);

}

}

import java.util.Scanner;

class Demo

{

static int number(int no)

{

int mul=1;

while (no!=0)

{

int rem=no%10;

mul=mul\*rem;

no=no/10;

}

return mul;

}

psvm(-)

{

Scanner sc=new Scanner(System.in);

sc("Enter the no");

sop(number(sc.nextInt()));

}

}

```
class Demo
```

```
{
```

```
    PSVM(-)
```

```
{
```

```
    INT no=143;
```

```
    INT mul=1;
```

```
    WHILE (no!=0)
```

```
{
```

```
        INT rem=no%10;
```

```
        mul=mul*rem;
```

```
        no=no/10;
```

```
}
```

```
SOP(mul);
```

```
}
```

```
}
```

(Scanned after crop) (B15P)

class Demo

```
{
```

```
    static void number(INT no)
```

```
{
```

```
    INT mul=1;
```

```
    WHILE (no!=0)
```

```
{
```

```
        INT rem=no%10;
```

```
        mul=mul*rem;
```

```
        no=no/10;
```

```
}
```

```
SOP(mul);
```

```
}
```

```
PSVM(-)
```

```
{
```

```
    number(143);
```

```
}
```

```
}
```

```
import java.util.Scanner;
```

```
class Demo
```

```
{
```

```
    PSVM(-)
```

```
{
```

```
    Scanner sc=new Scanner(System.in);
```

```
    SOP("Enter the no");
```

```
    INT no=sc.nextInt();
```

```
    INT mul=1;
```

```
    WHILE (no!=0)
```

```
{
```

```
        INT rem=no%10;
```

```
        mul=mul*rem;
```

```
        no=no/10;
```

```
}
```

```
SOP(mul);
```

```
}
```

```
}
```

```
import java.util.Scanner;
```

```
class Demo
```

```
{
```

```
    static INT number(INT no)
```

```
{
```

```
    INT mul=1;
```

```
    WHILE (no!=0)
```

```
{
```

```
        INT rem=no%10;
```

```
        mul=mul*rem;
```

```
        no=no/10;
```

```
}
```

```
SOP(mul);
```

```
}
```

```
PSVM(-)
```

```
{
```

```
    Scanner st=new Scanner(System.in);
```

```
    SOP("Enter the no");
```

```
    SOP(number(st.nextInt()));
```

```
}
```

```
}
```

## Array sum index sum

```

import java.util.Scanner;
class Demo
{
    public static void main(String[] args)
    {
        int arr[] = {1, 2, 3};
        int sum = 0;
        for (int i = 0; i < arr.length; i++)
        {
            if ((i + 1) % 2 == 0)
                sum = sum + arr[i];
        }
        System.out.println(sum);
    }
}

```

## Class Demo

```

class Demo
{
    static void array(int[] arr)
    {
        int sum = 0;
        for (int i = 0; i < arr.length; i++)
        {
            if ((i + 1) % 2 == 0)
                sum = sum + arr[i];
        }
        System.out.println(sum);
    }
}

```

psvm(→)

int[] arr = {1, 2, 3};

array(arr);

}

}

}

}

import java.util.Scanner;

class Demo

{

psvm(→)

Scanner sc = new Scanner(System.in);

int size = sc.nextInt();

int[] arr = new int[size];

sop("enter the elements");

for (int i = 0; i < arr.length; i++)

{

arr[i] = sc.nextInt();

int sum = 0;

for (int i = 0; i < arr.length; i++)

{

if ((i + 1) % 2 == 0)

sum = sum + arr[i];

}

System.out.println(sum);

psvm(→)

Scanner sc = new Scanner(System.in);

sop("enter size");

int size = sc.nextInt();

int[] arr = new int[size];

sop("enter Elements");

for (int i = 0; i < arr.length; i++)

{

arr[i] = sc.nextInt();

}

sop("array (arr)");

}

}

```

11 class Demo
{
    PSVM()
    {
        int arr={1,2,3};
        int sum=0;
        for(int i=0; i<arr.length; i++)
        {
            if(i%2==0)
                sum=sum+arr[i];
        }
        System.out.println("Sum is "+sum);
    }
}

```

```

class Demo
{
    PSVM()
    {
        int arr={1,2,3};
        array(arr);
        static void array(int[] arr)
        {
            int sum=0;
            for(int i=0; i<arr.length; i++)
            {
                if(i%2==0)
                    sum=sum+arr[i];
            }
            System.out.println("Sum is "+sum);
        }
    }
}

import java.util.Scanner;
class Demo
{
    PSVM()
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter size");
        int size=sc.nextInt();
        int arr=new int[size];
        System.out.println("Enter elements");
        for(int i=0; i<arr.length; i++)
        {
            arr[i]=sc.nextInt();
        }
        System.out.println("Array is "+arr);
    }
}

```

## array odd index sum

```

class Demo
{
    public static void main(String args[])
    {
        int arr[] = {1, 2, 3};
        int sum = 0;
        for (int i = 0; i < arr.length; i++)
        {
            if ((i % 2 == 1))
            {
                sum = sum + arr[i];
            }
        }
        System.out.println(sum);
    }
}

```

## class Demo

```

{
    static void array (int arr[])
    {

```

```

        int sum = 0;
        for (int i = 0; i < arr.length; i++)
        {
            if ((i % 2 == 1))
            {
                sum = sum + arr[i];
            }
        }
        System.out.println(sum);
    }
}

```

## psvm (-)

```

    {
        int arr[] = {1, 2, 3};
        array (arr);
    }
}

```

}

```

import java.util.Scanner;
class Demo

```

## psvm (-)

```

Scanner sc = new Scanner(System.in);

```

```

int size = sc.nextInt();

```

```

int arr[] = new int [size];

```

```

sc.nextLine();

```

```

for (int i = 0; i < arr.length; i++)

```

```

    arr[i] = sc.nextInt();

```

```

    int sum = 0;

```

```

    for (int i = 0; i < arr.length; i++)

```

```

    if ((i % 2 == 1))

```

```

        sum = sum + arr[i];
    }
}
```

```

System.out.println(sum);

```

```

import java.util.Scanner;

```

```

class Demo

```

## psvm (-)

```

Scanner sc = new Scanner(System.in);

```

```

int size = sc.nextInt();

```

```

int arr[] = new int [size];

```

```

sc.nextLine();

```

```

for (int i = 0; i < arr.length; i++)

```

```

    arr[i] = sc.nextInt();

```

```

}
System.out.println(Arrays.toString(arr));

```

```

static int array (int arr[])
{

```

```

    int sum = 0;

```

```

    for (int i = 0; i < arr.length; i++)

```

```

    if ((i % 2 == 1))

```

```

        sum = sum + arr[i];
    }
}
```

```

return sum;
}
}

```

}

```
class Demo
```

```
{  
    psvm (-)
```

```
{  
    int [] arr = {1, 2, 3};
```

```
    int sum = 0;
```

```
    for (int i = 0; i < arr.length; i++)
```

```
{  
    if (i % 2 == 1)
```

```
        sum = sum + arr[i];
```

```
}  
sop (sum);
```

```
class Demo
```

```
{  
    static void array (int [] arr)
```

```
{  
    int sum = 0;
```

```
    for (int i = 0; i < arr.length; i++)
```

```
{  
    if (i % 2 == 1)
```

```
        sum = sum + arr[i];
```

```
}  
sop (sum);
```

```
psvm (-)
```

```
{  
    int [] arr = {1, 2, 3};
```

```
    array (arr);
```

```
import java.util.Scanner;
```

```
class Demo
```

```
{  
    psvm (-)
```

```
{  
    Scanner sc = new Scanner (System.in);
```

```
sop ("Enter value");
```

```
int value = sc.nextInt();
```

```
int [] arr = new int [value];
```

```
sop ("Enter elements");
```

```
for (int i = 0; i < arr.length; i++)
```

```
{  
    arr[i] = sc.nextInt();
```

```
}  
int sum = 0;
```

```
for (int i = 0; i < arr.length; i++)
```

```
{  
    if (i % 2 == 1)
```

```
        sum = sum + arr[i];
```

```
}  
sop (sum);
```

```
import java.util.Scanner;
```

```
class Demo
```

```
{  
    psvm (-)
```

```
{  
    Scanner sc = new Scanner (System.in);
```

```
sop ("Enter value");
```

```
int value = sc.nextInt();
```

```
int [] arr = new int [value];
```

```
sop ("Enter elements");
```

```
for (int i = 0; i < arr.length; i++)
```

```
{  
    arr[i] = sc.nextInt();
```

```
}  
sop (array (arr));
```

```
static int array (int [] arr)
```

```
{  
    int sum = 0;
```

```
    for (int i = 0; i < arr.length; i++)
```

```
{  
    if (i % 2 == 1)
```

```
        sum = sum + arr[i];
```

```
}
```

```
}  
sop (sum);
```

## array odd array sum

class Demo

{

    int arr = {1, 2, 3};

    int sum = 0;

    for (int i=0; i<arr.length; i++)

        if (arr[i] % 2 == 0)

            sum = sum + arr[i];

    }

}

class Demo

{

    static void array (int[] arr)

    int sum = 0;

    for (int i=0; i<arr.length; i++)

        if (arr[i] % 2 == 0)

            sum = sum + arr[i];

    }

    }

    psvm (-)

    int[] arr = {1, 2, 3};

    array (arr);

    }

}

prompt java.util.Scanner;

class Demo

{

    psvm (-)

    Scanner sc = new Scanner (System.in);

    String size = sc.nextLine();

    int[] arr = new int [size];

    Scanner sc = new Scanner (System.in);

    String elements = sc.nextLine();

    String[] arr = elements.split (" ");

    int[] arr = new int [arr.length];

    int sum = 0;

    for (int i=0; i<arr.length; i++)

        if (arr[i] % 2 == 0)

            sum = sum + arr[i];

    }

    sop (sum);

}

prompt java.util.Scanner;

class Demo

{

    psvm (-)

    Scanner sc = new Scanner (System.in);

    String size = sc.nextLine();

    int[] arr = new int [size];

    Scanner sc = new Scanner (System.in);

    String elements = sc.nextLine();

    String[] arr = elements.split (" ");

    int[] arr = new int [arr.length];

    int sum = 0;

    for (int i=0; i<arr.length; i++)

        if (arr[i] % 2 == 0)

            sum = sum + arr[i];

    }

    sop (array (arr));

}

static int array (int[] arr)

{

    int sum = 0;

    for (int i=0; i<arr.length; i++)

        if (arr[i] % 2 == 0)

            sum = sum + arr[i];

    }

    return sum;

}

}

```
class Demo
```

```
{
```

```
    psvm (-)
```

```
{
```

```
    int arr = {1, 2, 3};
```

```
    int sum = 0;
```

```
    for (int i = 0; i < arr.length; i++)
```

```
    {
        if (arr[i] % 2 == 0)
```

```
        {
            sum = sum + arr[i];
```

```
        }
```

```
    }
    sop (sum);
```

```
}
```

```
class Demo
```

```
{
```

```
    static void array (int) arr
```

```
{
```

```
    int sum = 0;
```

```
    for (int i = 0; i < arr.length; i++)
```

```
    {
        if (arr[i] % 2 == 0)
```

```
        {
            sum = sum + arr[i];
```

```
        }
```

```
    }
    sop (sum);
```

```
}
```

```
static psvm (-)
```

```
{
```

```
    int [] arr = {1, 2, 3};
```

```
    array (arr);
```

```
}
```

```
import java.util.Scanner;
```

```
class Demo
```

```
{
```

```
    psvm (-)
```

```
{
```

```
    Scanner sc = new Scanner (System. in);
```

```
    sc. nextInt ();
```

```
    int [] arr = new int [size];
```

```
    sop (size);
```

```
    for (int i = 0; i < arr.length; i++)
```

```
    {
        sc. nextInt ();
```

```
        sum = sum + arr[i];
```

```
    }
    sop (sum);
```

```
}
```

```
import java.util.Scanner;
```

```
class Demo
```

```
{
```

```
    psvm (-)
```

```
{
```

```
    Scanner sc = new Scanner (System. in);
```

```
    sc. nextInt ();
```

```
    int size = sc. nextInt ();
```

```
    int [] arr = new int [size];
```

```
    sop (size);
```

```
    for (int i = 0; i < arr.length; i++)
```

```
    {
        sop (arr[i] = sc. nextInt (),
```

```
        sop (array (arr)));
```

```
}
```

```
static int array (int) arr
```

```
{
```

```
    int sum = 0;
```

```
    for (int i = 0; i < arr.length; i++)
```

```
    {
        if (arr[i] % 2 == 0)
```

```
        {
            sum = sum + arr[i];
```

```
        }
```

```
    }
    return sum;
```

```
}
```

```
}
```

## array even array sum

class Sample

{  
    psvm(-)

    {  
        int[] arr = {1, 2, 3};  
        for (int i = 0; i < arr.length; i++)

    {  
        if (arr[i] % 2 == 0)

        {  
            sum = sum + arr[i];

    }

    sop(sum);

}

class Demo

{  
    static void array(int[] arr)

    {  
        int sum = 0;

        for (int i = 0; i < arr.length; i++)

        {  
            if (arr[i] % 2 == 0)

            {  
                sum = sum + arr[i];

            }

        sop(sum);

}

    psvm(-)

{

    int[] arr = {1, 2, 3};

    array(arr);

}

}

import java.util.Scanner;

class Demo

{  
    psvm(-);

    Scanner sc = new Scanner(System.in);

    sop(" ");

    int size = sc.nextInt();

    int[] arr = new int[size];

    sop(" ");

    for (int i = 0; i < arr.length; i++)

    {  
        int i = sc.nextInt();

        arr[i] = sc.nextInt();

    }

    int sum = 0;

    for (int i = 0; i < arr.length; i++)

    {  
        int i = arr[i];

        if (arr[i] % 2 == 0)

            sum = sum + arr[i];

    }

    sop(sum);

}

import java.util.

class Demo

{  
    psvm(-);

    Scanner sc = new Scanner(System.in);

    sop(" ");

    int size = sc.nextInt();

    int[] arr = new int[size];

    sop(" ");

    for (int i = 0; i < arr.length; i++)

    {  
        int i = sc.nextInt();

        arr[i] = sc.nextInt();

    }

    sop(array(arr));

}

static int array(int[] arr)

{  
    int sum = 0;

    for (int i = 0; i < arr.length; i++)

    {  
        int i = arr[i];

        if (arr[i] % 2 == 0)

            sum = sum + arr[i];

    }

    return sum;

}

}

## Clau Demo

```
1 PSVM (-)
  {
    int arr = {1, 2, 3};
    int sum = 0;
    for (int i = 0; i < arr.length; i++)
    {
      if (arr[i] % 2 == 0)
        sum = sum + arr[i];
    }
    sop (sum);
  }
```

## Clau Demo

```
1 static void array (Ent[] arr)
  {
    Ent sum = 0;
    for (Ent i = 0; i < arr.length; i++)
    {
      if (arr[i] % 2 == 0)
        sum = sum + arr[i];
    }
    sop (sum);
  }
```

## PSVM (-)

```
1 Ent[] arr = {1, 2, 3};
array (arr);
  }
```

```
import java.util.Scanner;
```

## Clau Demo

```
1 PSVM (-)
  Scanner sc = new Scanner (System.in);
  Ent ec;
  Ent [] arr = new Ent [ec];
  sop (ec);
  for (Ent i = 0; i < arr.length; i++)
  {
    arr[i] = sc.nextInt();
  }
  Ent sum = 0;
  for (int i = 0; i < arr.length; i++)
  {
    if (arr[i] % 2 == 0)
      sum = sum + arr[i];
  }
  sop (sum);
  }
```

```
import java.util.Scanner;
```

## Clau Demo

```
1 PSVM (-)
  Scanner sc = new Scanner (System.in);
  sop (ec);
  Ent i;
  Ent [] arr = new Ent [i];
  sop (ec);
  for (Ent i = 0; i < arr.length; i++)
  {
    arr[i] = sc.nextInt();
  }
  sop (array (arr));
  }
```

## static Ent array (Ent[] arr)

```
1 Ent sum = 0;
for (Ent i = 0; i < arr.length; i++)
{
  if (arr[i] % 2 == 0)
    sum = sum + arr[i];
}
sop (sum);
}
```

### Recursion :-

① class Sample

```

    {
        static void number(int n)
        {
            if (n >= 10)
                sop("return (no);");
            else
                {sop("no");
                 return number(n+1);
                }
        }
    }

    public static void main()
    {
        number(1);
    }
}
```

② class Sample

```

    {
        static void number(int n)
        {
            if (n >= 10)
                sop("return (no);");
            else
                {sop("no");
                 return number(n+1);
                }
        }
    }

    public static void main()
    {
        number(1);
    }
}
```

```

import java.util.Scanner;
class Sample
{
    static void number(int n)
    {
        if (n >= 10)
            return (n);
        else
            {sop("no");
             number(n+1);
            }
    }

    public static void main()
    {
        Scanner sc = new Scanner(System.in);
        sop("Enter the number:");
        sop(number(nextInt())));
    }
}

class Sample
{
    static void number(int n)
    {
        if (n <= 10)
            sop("return (no);");
        else
            {sop("no");
             number(n+1);
            }
    }

    public static void main()
    {
        number(1);
    }
}
```

```

3 class Demo
{
    static void number(int no)
    {
        if (no >= 10)
            sop("no");
        else
        {
            sop("no");
            return number(no + 1);
        }
    }
    psvm()
    {
        number(1);
    }
}

```

```

4 class Demo
{
    psvm()
    {
        number(1);
    }
    static void number(int no)
    {
        if (no >= 10)
        {
            sop("no");
            number(no + 1);
        }
        else
        {
            sop("no");
            number(no + 1);
        }
    }
}

```

```

class Demo
{
    static void number(int no)
    {
        if (no >= 10)
            sop("no");
        else
        {
            sop("no");
            number(no + 1);
        }
    }
    psvm()
    {
        Scanner sc = new Scanner();
        sop("Enter the number");
        number(sc.nextInt());
    }
}

```

```

import java.util.Scanner;
class Demo
{
    static void number(int no)
    {
        if (no >= 10)
            sop("no");
        else
        {
            sop("no");
            number(no + 1);
        }
    }
    psvm()
    {
        Scanner sc = new Scanner();
        sop("Enter the no");
        number(sc.nextInt());
    }
}

```

### Q) class Demo

```
{  
    static void number(int no)  
    {  
        if (no >= 10)  
        {  
            sop(no);  
        }  
        else {  
            sop(no);  
            number(no + 1);  
        }  
    }  
    public static void main()  
    {  
        number(1);  
    }  
}
```

```
import java.util.Scanner;
```

```
class Demo
```

```
{  
    static void number(int no)
```

```
{  
    if (no >= 10)
```

```
{  
    sop(no);  
}
```

```
}  
else {
```

```
sop(no);  
number(no + 1);
```

```
}
```

```
public static void main()
```

```
{  
    Scanner sc = new Scanner(System.in);
```

```
sop("Enter the no");
```

```
number(sc.nextInt());
```