Method overriding (loading), Scanner, BR, Arrays, Vectors and String

Method Overloading

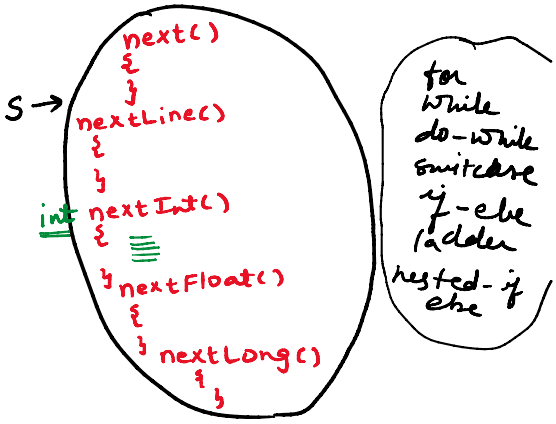
```
class Area
{
  void area()
  {
    Sop("..... AREA .....");
  }
  void area(int x)
  {
    Sop("Area of Square =" +(x*x));
  }

  void area(float x)
  {
    Sop("Area of Circle =" +(3.14f*x*x));
  }
  void area(int x, int y)
  {
    Sop("Area of Rectangle =" +(x*y));
  }
}
```

```
class Main
{
  psvm(String z[])
  {
    Area a=new Area();
    a.area();
    a.area(10);
    a.area(5.3f);
    a.area(10,3);
  }
}
```

---

or import java.util.Scanner;

```
import java.util.*;
class Main
{
  psvm(String z[])
  {
    Scanner s=new Scanner(System.in);
    int a,b,c;
    Sop("Enter two Nos");
    a=s.nextInt();
    b=s.nextInt();
    c=a+b;
    Sop("Addition is"+c);
  }
}
```

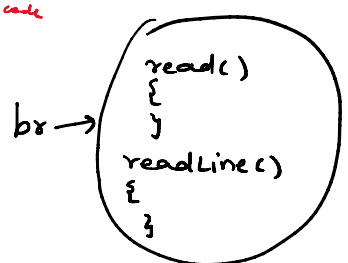


BufferedReader

```
import java.io.*;
class Main
{
  psvm(String z[]) throws IOException
  {
    InputStreamReader isr=new InputStreamReader(System.in);
    BufferedReader br=new BufferedReader(isr);
```

or

```
BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
    int a,b,c;
    Sop("Enter two Nos");
    a=Integer.parseInt(br.readLine()); // static method
    b=Integer.parseInt(br.readLine());
    c=a+b;
    Sop("Addition is",c);
```



```
b = Integer.parseInt(br.readLine());
c = a + b;
Sop("Addition is", c);
}
}
```

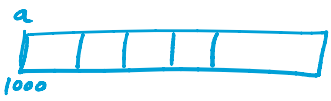
C

```
int a[5];
int a[n];   // n ← X
```

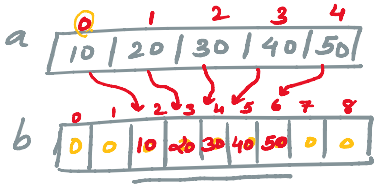
java

```
int a[] = new int[5];
int a[] = new int[n];
```

20 → 4 5




```
int a[][] = new int[n][m];

for(i=0;i<n;i++)
{
  a[i] = s.nextInt(); Sop(a[i]);
}

int a[] = {10,20,30,40};
int a[][] = { {1,2,3}, {4,5,6}, {7,8,9} };
```




```
System.arraycopy(a, 0, b, 2, 5);
```

- a → source
- 0 → copying will start from (index)
- b → destination
- 2 → where to put (index)
- 5 → no. of elem.