

## Variable Length Arguments.

class Temp

{

void show(int... x)

{

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

System.out.println(x[i]);

}

psum()

{

Temp t1 = new Temp();

t1.show(); new int[] {1}

t1.show(10); new int[] {10}

t1.show(10, 20); new int[] {10, 20}

t1.show(10, 20, 30);

t1.show(new int[] {10, 20, 30, 40});

}

for (int z : x)

{

System.out.println(z);

}

### Rule

Whatever argument you pass in a variable length argument, they will first be converted to anonymous array then that array is passed into the f<sup>n</sup> as a argument.

• You Can have only ~~a~~ one variable length argument in a single fn.

• Variable length argument must be the right-most argument.

class Temp

```
1 void show (int... x)
2 {
3 }
```

```
void show (int z)
{
}
```

Compiler error

ex) show(10)

```
void show (int... x)
{
}
void show (int z)
{
}
```

→ compiles 4

show(10) → this will run  
2nd show



Program(Vargs1.java)

```

class Vargs1
{

```

```

    static void Show (Object... x)
    {

```

```

        for (int i=0; i<x.length; i++)
            Sop (x[i] + " ");
    }

```

```

    public static void main (String s[])
    {

```

```

        int day = 1;
        String month = "April";
        int year = 2014;
        Show (); // new Object[] {}
        Show (day); // new Object[] {new Integer (day)}
        Show (day, month); // new Object[] {new Integer (day), month}

```

```

        Show (day, month, year); // new Object[] {new Integer (day), month, new Integer (year)}
    }

```

```

Object dateinfo[] = {day, month, year};
Show (dateinfo);
Show ((Object) dateinfo); // new Object[] { (obj) dateinfo }

```

show (new Object[] {date info});

>

>

Vargs2.java

class Vargs2

{  
void show(int... x)

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

Sop(x[i]);

for(int i=x;

Sop(i);

void show(int z)

{  
Sop("single" + z);

}

public static void main(String s[])

{  
new Vargs2().show(10, 10, 10, 10);

Sop("after second call");

new Vargs2().show(10);  
}



Vargs.java

```
class Vargs
```

```
{  
    void show(char ch, int... x)
```

```
{  
    Sop(ch);
```

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

```
        Sop(x[i]);
```

```
    for(int i=x)
```

```
        Sop(i);  
}
```

```
}  
ps vm()
```

```
{  
    new Vargs().show('a', 10, 10, 10, 10);  
}
```