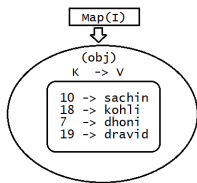


Map is not a part of collection



Note:

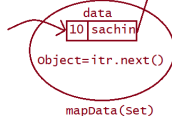
Value is retrieved with the help of key
Internally key would be stored through hashing technique (hashtable)
key can't be duplicated whereas value can be duplicated.

10	sachin
18	kohli
7	dhoni
19	dravid
45	rohit

Map<K,V>

```

interface Map<K,V>
{
    interface Entry
    {
        public abstract K getKey();
        public abstract V getValue();
        public abstract V setValue(V);
    }
}
  
```



```

HashMap h = new HashMap();

//Creating a key
Integer i1= new Integer(10);
Integer i2= new Integer(10);

//Adding the data to HashMap
h.put(i1,"sachin");
h.put(i2,"Messi");

System.out.println(h);

```

10

i2 i1	sachin Messi

HashMap



i2.equals(i1)=true

If it is HashMap
JVM calls
equals(obj2)
to identify
whether keys are
duplicated or not

```

IdentityHashMap h = new IdentityHashMap();

//Creating a key
Integer i1= new Integer(10);
Integer i2= new Integer(10);

//Adding the data to HashMap
h.put(i1,"sachin");
h.put(i2,"Messi");

System.out.println(h);

```

10

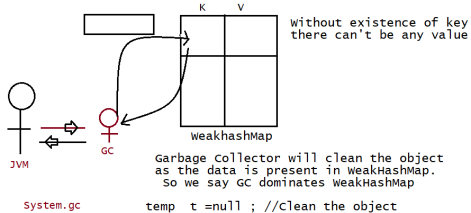
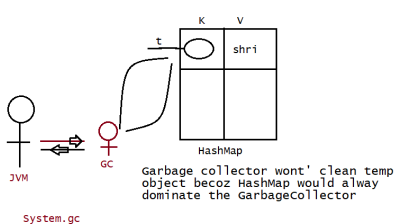
i1	sachin
i2	Messi

IdentityHashMap



i1==i2(false)

If it is IdentityHashMap
JVM calls
== operator
to identify
whether keys are
duplicated or not



```
Hashtable hm = new Hashtable();//Default capacity is 11
```

```
hm.put(new Temp(5),"A");  
hm.put(new Temp(2),"B");  
hm.put(new Temp(6),"C");  
hm.put(new Temp(15),"D");  
hm.put(new Temp(23),"E");  
hm.put(new Temp(16),"f");
```

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

```
{6=C,16=F,5=A,15=D,2=B,23=E}
```

$15 \% 11 = 4$

$23 \% 11 = 1$

$16 \% 11 = 5$

