## 169. Majority Element

```
1) dedone majority element = ovor [0]
2) 11 Count = 1
3) iterate from 1 to (n-1)
    3.1) if cour == majarity ele
              Count ++;
              Count --;
          3.2.D if count == 0 then
                 majarity element = worli];
```

3.3) return majority element.

count = 1

code 7. C=O(n), S-C=O(1)

```
public int majorityElement(int[] arr) {
    int majorityEle = arr[0];
    int count = 1;
    for (int i = 1; i < arr.length; i++) {
        if ( arr[i] == majorityEle ) {
            count++:
        } else {
            count --:
            if ( count == 0 ) {
                majorityEle = arr[i];
                count = 1;
    return majorityEle;
```



#### Constructors 1\_1

```
public class Solution {
   public static class Movie {
       String name;
       int rating;
       int money;
       int profit;
       String actor:
       String actress;
       public Movie(String name, int rating, int money, int profit, String actor, String actress) {
           this.name = name;
           this.rating = rating;
           this.money = money;
           this.profit = profit:
           this.actor = actor:
            this.actress = actress;
  public static void main(String[] args) {
       Movie batman1 = new Movie("Batman 1", 8, 200000, 5000, "John", "Disha");
       System.out.println(batman1.rating);
       System.out.println(batman1.money);
       System.out.println(batman1.profit);
       System.out.println(batman1.actor);
       System.out.println(batman1.actress);
       Movie batman2 = new Movie("Batman 2", 9, 500000, 8000, "Akshay", "Anushka");
       System.out.println(batman2.rating);
       System.out.println(batman2.money);
       System.out.println(batman2.profit);
       System.out.println(batman2.actor);
       System.out.println(batman2.actress);
       Movie batman3 = new Movie("Batman 3", 10, 700000, 6000, "Ajay", "Deepika");
       System.out.println(batman3.rating);
       System.out.println(batman3.money);
       System.out.println(batman3.profit);
       System.out.println(batman3.actor);
       System.out.println(batman3.actress);
```

short

fun2()

hunt()

maine)

Static

### Functions 1\_3

```
public static class Movie {
    // fields
    String name:
    int rating;
    int moneyCollection;
    int profit;
    String actor;
    String actress;
    public Movie(String name, int rating, int moneyCollection, int profit, String actor, String actress) {
        this.name = name;
        this.rating = rating;
        this.moneyCollection = moneyCollection;
        this.profit = profit;
        this.actor = actor;
        this.actress = actress;
    }
    public void propDisplay() {
        System.out.println(name);
        System.out.println(rating);
        System.out.println(moneyCollection);
        System.out.println(profit);
        System.out.println(actor);
        System.out.println(actress);
public static void main(String[] args) {
    Movie batman1 = new Movie("Batman 1", 8, 200000, 5000, "Rachel Gupta & Nikhil Chinapa", "Disha");
    batman1.propDisplay();
   Movie batman2 = new Movie("Batman 2", 9, 500000, 8000, "Rannvijay Singha & Prince Narula", "Neha Dhupia");
    batman2.propDisplay();
    Movie batman3 = new Movie("Batman 3", 10, 700000, 6000, "Rachel Gupta & Prince Narula", "Neha Dhupia");
    batman3.propDisplay();
```

### Methods 1\_2

```
public static class Movie {
    // fields
    String name;
    int rating;
    int moneyCollection;
    int profit;
    String actor;
    String actress:
    public Movie(String name, int rating, int moneyCollection, int profit, String actor, String actress) {
        this.name = name;
       this.rating = rating;
       this.moneyCollection = moneyCollection;
        this.profit = profit;
       this.actor = actor;
        this.actress = actress;
    public void propDisplay() {
        System.out.println(name);
        System.out.println(rating);
        System.out.println(moneyCollection);
        System.out.println(profit);
        System.out.println(actor);
        System.out.println(actress);
   public boolean checkHit() {
        return rating > 5;
public static void main(String[] args) {
    Movie batman1 = new Movie("Batman 1", 8, 200000, 5000, "Rachel Gupta & Nikhil Chinapa", "Disha");
    System.out.println(batman1.checkHit());
    Movie batman2 = new Movie("Batman 2", 9, 500000, 8000, "Rannvijay Singha & Prince Narula", "Neha Dhupia");
    System.out.println(batman2.checkHit());
   Movie batman3 = new Movie("Batman 3"
                                             700000, 6000, "Rachel Gupta & Prince Narula", "Neha Dhupia");
   System.out.println(batman3.checkHit()
}
```

## Constructor Overloading 1\_1

```
public static class Movie {
    // fields
    String name:
    int rating;
    int moneyCollection;
    int profit;
    String actor:
    String actress;
    public Movie(int rating, int moneyCollection) {
        this.rating = rating;
        this.moneyCollection = moneyCollection;
        System.out.println("Stored rating and money.");
    public Movie(int rating, int moneyCollection, int profit) {
        this.rating = rating;
        this.moneyCollection = moneyCollection;
        this.profit = profit;
        System.out.println("Stored rating, money, profit are given.");
    public Movie(int rating, int moneyCollection, int profit, String actor) {
        this.rating = rating;
        this.moneyCollection = moneyCollection;
        this.profit = profit;
        this.actor = actor;
        System.out.println("Stored rating, money, profit, lead actors are given.");
public static void main(String[] args) {
    Movie superman1 = new Movie(8, 900000);
    Movie superman2 = new Movie(8, 900000, 8000);
    Movie superman3 = new Movie(8, 900000, 8000, "Ranveer Singh");
}
```

# Static Keyword 1\_1

Note: there is a static block gmp.

Imp: This will always be the first thing to nun when main is called

Synter:

static & // statement

```
class Movie {
   // fields
   String name;
   int rating;
   int moneyCollection;
   int profit;
   String actor;
   String actress:
   static String videoType;
   _static {
        videoType = "movies";
   public Movie(String name, int rating, int moneyCollection, int profit, String actor, String actress) {
        this.name = name;
        this.rating = rating;
        this.moneyCollection = moneyCollection;
       this.profit = profit;
       this.actor = actor;
       this.actress = actress;
public class Solution {
   public static void main(String[] args) {
       Movie superman1 = new Movie("Superman 1", 8, 900000,8000, "Rachel Gupta", "Vaani");
        System.out.println(superman1.videoType);
        System.out.println(Movie.videoType);
7
```

\_eetcode 128 - Hint-DP