

```
public class Company {
    private int[] id;
    private String[] name;
    private float[] salary;
    private int current;
    public Company(int size)
    {
        id = new int[size];
        name = new String[size];
        salary = new float[size];
        current = 0;
    }
    public boolean addEmployee(int i, String n, float s)
    {
        if(current >= id.length)
            return false;
        else{
            id[current] = i;
            name[current] = n;
            salary[current++] = s;
            return true;
        }
    }
    public int search(int i)
    {
        for(int j=0; j<current; j++)
            if(id[j] == i)
                return j;
        return -1;
    }
    public float findMaxSalary()
    {
        float max = salary[0];
        for(int i=1; i<current; i++)
            if(salary[i]>max)
                max = salary[i];
        return max;
    }
    public float findMinSalary()
    {
        float min = salary[0];
        for(int i=1; i<current; i++)
            if(salary[i]<min)
                min = salary[i];
        return min;
    }
    public float calculateTotalSalaries()
    {
        float sum = 0.0f;
        for(int i=0; i<current; i++)
            sum += salary[i];
        return sum;
    }
    public float calculateAverageSalaries()
    {
```

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        return calculateTotalSalaries()/current;
    }
    public void printEmployeeData(int i)
    {
        int index = search(i);
        if(index != -1)
        {
            System.out.println("-----");
            System.out.println("printing Employee Data");
            System.out.println("-----");
            System.out.println("id: "+id[index]);
            System.out.println("name: "+name[index]);
            System.out.println("salary: "+salary[index]);
            System.out.println("-----");
        }
        else
            System.out.println("Employee ID is not found");
    }
}
```

```
import java.util.Scanner;
public class TestCompany {
    public static void main(String[] args) {

        Scanner input = new Scanner(System.in);
        Company c = new Company(20);
        System.out.println("Welcome to Company System");
        int choice;
        do{
            System.out.println("1)Add a new employee info");
            System.out.println("2)Quit");
            System.out.println("Your choice?");
            choice = input.nextInt();
            switch(choice)
            {
                case 1:
                    System.out.println("Enter employee ID, name, and
                        salary, respectively");
                    boolean b = c.addEmployee(input.nextInt(), input.next(), input.
                        nextFloat());
                    if(b)
                        System.out.println("Employee data were added successfully");
                    else
                        System.out.println("Unable to add an employee! (array is
                            full)");
                    break;
                case 2:
                    System.out.println("max salary: "+c.findMaxSalary());
                    System.out.println("min salary: "+c.findMinSalary());
                    System.out.println("total salaries: "+c.calculateTotalSalaries())
                        ;
                    System.out.println("average salaries: "+c.
                        calculateAverageSalaries());
                    c.printEmployeeData(666);//choose an existed id
                    c.printEmployeeData(999);//choose an ID that does not exist
                    break;
                default:
                    System.out.println("Wrong choice");
            }
        }while(choice != 2);
    }
}
```