55-1)

package doselect;

import java.util.\*;

public class Fish {

public String species;

public int weight;

public Fish(String species, int weight){

this.species=species;

this.weight=weight;

}

public String getSpecies() {

return species;

}

public int getWeight() {

return weight;

}

public String toString(){

return "Fish{species='"+getSpecies()+"'"+" weight="+getWeight()+"}";

}

}

class FishClass{

public List<Fish> getFishWithLowestWeight(List<Fish> list){

List<Fish> f=new ArrayList<>();

int min=list.get(0).weight;

for(int i=1;i<list.size();i++){

if(list.get(i).weight<min){

min=list.get(i).weight;

}

}

for(int j=0;j<list.size();j++){

if(list.get(j).weight==min){

f.add(list.get(j));

}

}

return f;

}

public List<Integer> mapFishWeight(List<Fish> list){

List<Integer> lst=new ArrayList<>();

for(int i=0;i<list.size();i++){

lst.add(list.get(i).weight);

}

return lst;

}

}

class FishMain{

public static void main(String[] args){

FishClass f = new FishClass();

List<Fish> list = new ArrayList<Fish>();

list.add(new Fish("BlobFish", 20));

list.add(new Fish("Guppy", 15));

list.add(new Fish("Oscar", 60));

list.add(new Fish("GoldFish", 5));

List<Fish> l1=f.getFishWithLowestWeight(list);

List<Integer> l2=f.mapFishWeight(list);

System.out.println(l1);

System.out.println(l2);

}

}