```
public class Ministry { /22
 private String name;
 private double budget;
 private Department[] arDep; ------1
 private int nbd; -----1
 Ministry(String name, double budget, int size){ /2
      this.name = name;
      this.budget = budget;
      arDep = new Department[size]; -----1
      nbd = 0; ------1
 }
 Ministry(Ministry m){ /4
      name = m.name;
      budget = m.budget;
      arDep = new Department[m.arDep.length]; ------1
      nbd = m.nbd; -----1
      //alt: nbp = 0
      for(int i=0; i<m.nbd; i++)------1
           arDep[i] = new Department(m.arDep[i]); -----------1
           //alt: addDepartment(m.arDep[i]);
      }
 }
 public boolean addDep(Department d){ /3
      if(nbd >= arDep.length) return false; -----------1
      arDep[nbd++]=new Department(d); -----2
      return true;
 }
 public Department searchByID(int id) { /4
      for(int i=0;i<nbd;i++)------1</pre>
      {
           if(arDep[i].getID() == id) ------1
                return arDep[i]; -----1
      }
      return null; -----1
 }
 public int countDep(int n){ /5
```

}

```
public class Government { /20
private String country;
private Ministry[] arMin; -----1
private int nbm; -----1
Government(String country) /2
{
     this.country = country;
     arMin = new Ministry[20]; -----1
     nbm = 0; -----1
}
public boolean addMinistry(Ministry m) /3
{
     if(nbm >= arMin.length) return false; -----------1
     arMin[nbm++] = new Ministry(m); -----2
     return true;
}
public int addMinistry(Ministry[] m) /7
{
     int count = 0; -----1
     for(int i=0;i<nbm;i++)-----1</pre>
          if(nbm < arMin.length) -----1</pre>
               arMin[nbm++] = new Ministry(m[i]); -----2
               count++; - - - - - - - 1
          }
     }
     return count; -----1
}
//alt solution
 public int addMinistry(Ministry[] m) /7
{
     int count = 0; -----1
     for(int i=0;i<nbm;i++)------1</pre>
          if(addMinistry(m[i])) -----3
               count++; -----1
     }
```

}

```
Ex3: /8
```