

Övning 5

1

/** Undersöker om strängarna s1 och s2
är lika långa och alla tecknen i s1 är
lika med motsvarande tecken i s2.*/

```
public static boolean equals(String s1,  
                             String s2) {  
    * if (s1.length != s2.length)  
        return false;  
    for (int i = 0; i < s1.length; i++) {  
        if (s1.charAt(i) != s2.charAt(i))  
            return false;  
    }  
    return true;  
}
```

2

```
public String reverse (String s) {  
    StringBuilder sb = new StringBuilder();  
    for (int i = s.length; i >= 0; i--) {  
        sb.append (s.charAt (i));  
    }  
    return sb.toString();  
}
```

3

a) int sum;

```
for (int i = 0; i < cards.size(); i++) {  
    sum += cards.get(i).getRank();  
}
```

b) int pos = -1;

```
for (int i = 0; i < cards.size(); i++) {  
    if (cards.get(i).getRank() == 12 &&  
        cards.get(i).getSuit() == Card.SPADES) {  
        pos = i;  
        break;  
    }  
}
```

3

c) Card newCard = new Card(s, r);

```
for (int i=0; i < cards.size(); i++) {  
    if (cards.get(i).getRank < r)   
        cards.add(i, newCard)   
}
```

4

String name;

String nbr;

private ArrayList<Person> persons;

public PhoneDirectory() {

persons = new ArrayList<Person>();

}

public boolean insert(String name, String
nbr) {

Person p = new Person(name, nbr)

if (findPerson(name) != null) {

persons.add(p);

}

}

private Person findPerson(String name) {

for (Person i : persons) {

if (i.getName().equals(name))

return i;

}

return null;

```
public void delete(String name){
    persons.remove(persons.findPerson(name).
        index Of ());
}
```

```
public String findNbr(String name){
    int pos = -1;
    for(Person i: persons){
        if(i.getName.equals(name)){
            return i.getPhoneNbr;
        }
    }
    return null;
}
```

```
public ArrayList<String> startswith(String s){
    ArrayList<String> a = new ArrayList<>();
    for(Person p: persons){
        if(p.getName.startswith(s)){
            a.add(p.getName());
        }
    }
    return a;
}
```

```
{
```

```
Public String toString() {  
    StringBuilder sb = new StringBuilder();  
    for (Person p : persons)  
        sb.append(p.getName);  
        sb.append(", ");  
        sb.append(p.getNbr);  
        sb.append("\n");  
}
```
