

Android challenge answer  
Name : Hasan Mohamed Shehata Ebrahim  
ID : JP-045

ABString problem Solution

```
public static boolean solution(String str){  
    str = str.toLowerCase();  
    boolean isBFound = false;  
    for(int i = 0 ; i < str.length() ; i++){  
        if(str.charAt(i) == 'b') {  
            isBFound = true;  
            continue;  
        }  
        if(isBFound && str.charAt(i) == 'a')  
            return false;  
    }  
    return true;  
}
```

## Selected icon problem solution

```
public static int solution(int [] A, int [] B, int X, int Y){
    for (int i = 0 ; i < A.length ; i++){
        int horizontalComponentLength = Math.abs(A[i] - X);
        int verticalComponentLength = Math.abs(B[i] - Y);
        double tapToCenterLength = Math.sqrt(
            Math.pow((double)horizontalComponentLength,2.0D) +
            Math.pow((double)verticalComponentLength, 2.0D)
        );
        if(tapToCenterLength <= 20)
            return i;
    }
    return -1;
}
```

McqAndroid

1-Which of the following versions of android introduces the runtime permissions model?

Answer : C

C)Marshmallow

---

2-Given a service class ExampleService .....

Answer : D

D) The service cannot be started as it is not enabled

Also the service is a component which need to be started by another component such as activity or another service

Also service is initially run in the main UI thread

---

3-Which of the following class is not a subclass of the context class

Answer : C

C) Fragment

---

---

4-Which of the following permissions is not considered dangerous

Answer : C

C) INTERNET

---

5-If you would like to take a picture using one of the installed camera applications , allowing the user to choose the application , you should

Answer : D

D) Send an implicit intent.

---

6-which of the following may be a result of memory leaks?

Answer : D

D) OutOfMemoryError

---

7-Which of the following is the least likely source of memory leaks?

Answer : C

C) Unregistered Listeners

8-Which of the following units is not density independent?

Answer : B

B) px

---

9-Which of the following statements is the proper way to start another activity from the current activity?

Answer : A

A) startActivity(new Intent(this, AnotherActivity.class));

---

10 – which of the following is not a reason for using ProGuard?

Answer : B

B) hiding secret values in the code