

INTERVIEW DEMO

**BY ACSU ACADEMIC TEAM (FEAT. SOME
SENIORS AND DANIEL)**

MOCK INTERVIEWS



FEB 4 ACSU Mock Interview Day

Public · Workshop · Hosted by Cornell ACSU - Association of Computer Scie...

★ Interested + Going Share ▾ ⋮

🕒 Saturday, February 4 at 10 AM - 6 PM
Next Week · -11—6° Mostly Cloudy

📍 Gates Hall
Cornell University, Ithaca, New York 14853 [Show Map](#)

About Discussion



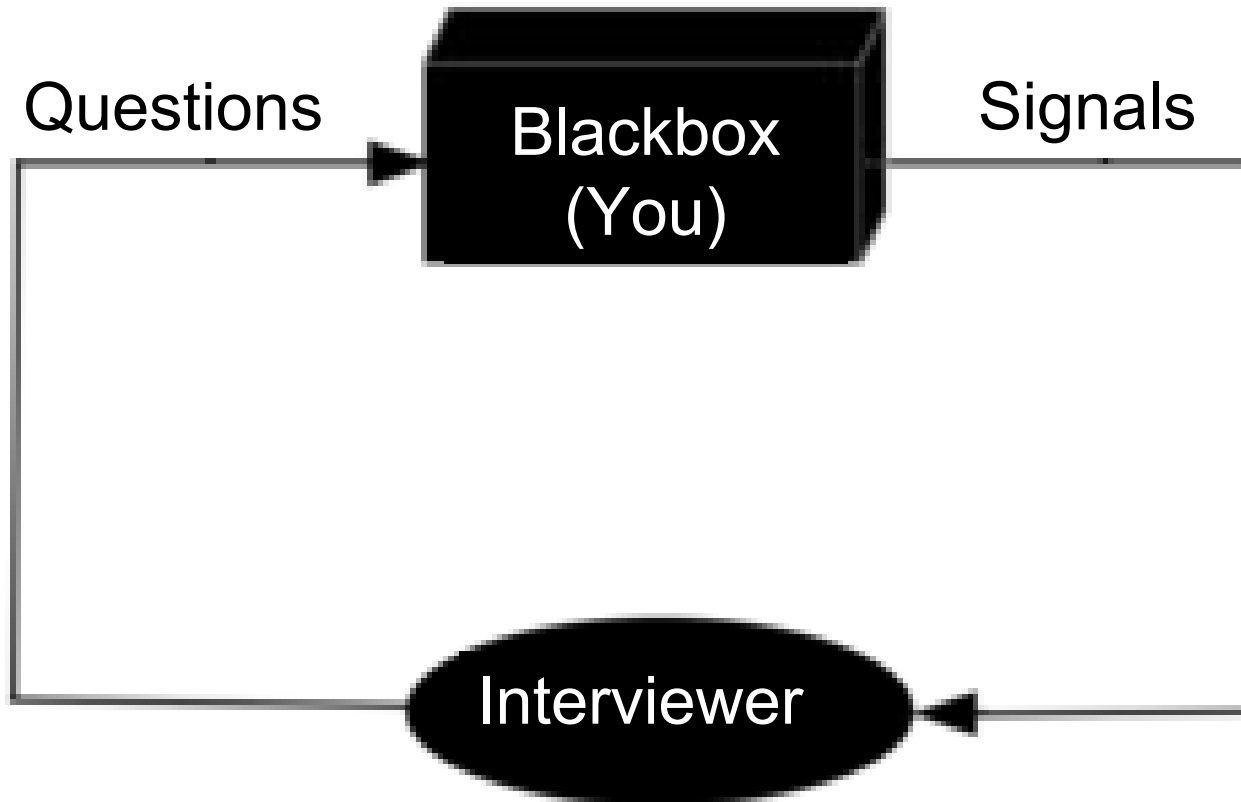
Irene, Justin and George are going

INTERVIEWING != OBJECTIVE

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TODAY: CHANGING THE WAY WE LOOK AT INTERVIEWING.

WHAT IS AN INTERVIEW?



THE SITUATION

It is 2014. A fresh-faced Hong Jeon walks into an interview room...

THE QUESTION

Given a list of numbers of size n , where the elements range from 1 to n , find the duplicate number.

CODE EXAMPLE 1

```
public int findDuplicate(int[] lst) {
```

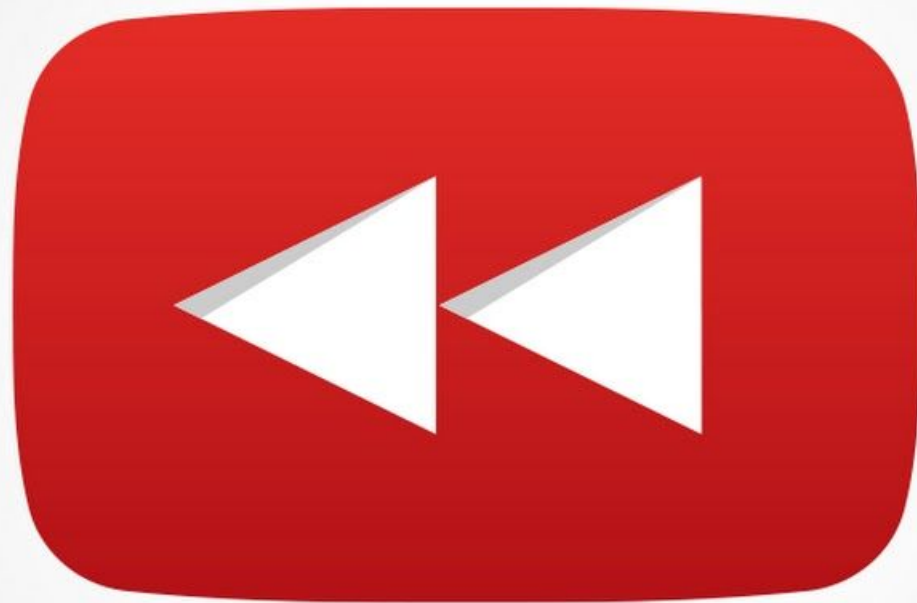
```
}
```


CASE 1: SILENT INTERVIEWEE

CODE EXAMPLE 2

```
public int findDuplicate(int[] lst) {  
    int arraySum = 0;  
    int seriesSum = 0;  
    for (int i = 0; i < lst.length; i++) {  
        arraySum += lst[i];  
    }  
  
}
```

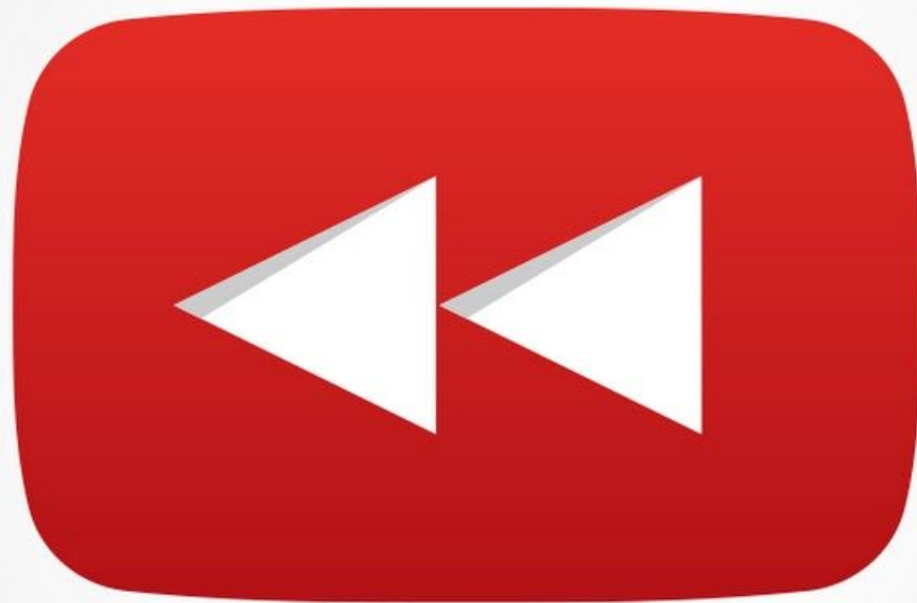
CASE 2: STRAIGHT TO CODE



CODE EXAMPLE 3

```
public int findDuplicate(int[] lst) {  
    int arraySum = 0;  
    int seriesSum = 0;  
    for (int i = 0; i < lst.length; i++) {  
        arraySum += lst[i];  
    }  
    for (int i = 1; i <= lst.length) {  
        seriesSum += i;  
    }  
    return arraySum - seriesSum;  
}
```

CASE 3: NO CLARIFYING QUESTIONS



CODE EXAMPLE 4

```
public int findDuplicate(int[] lst) {  
    HashSet<Integer> jahun = new HashSet<Integer>();  
    for(int i = 0; i < lst.length ; i++)  
    {  
        if (jahun.contains(lst[i])){  
            return lst[i]; }  
        else{  
            jahun.add(lst[i]);  
        }  
    }  
}
```


A NOTE

False Positives do much more harm than False Negatives.

CODE EXAMPLE 5

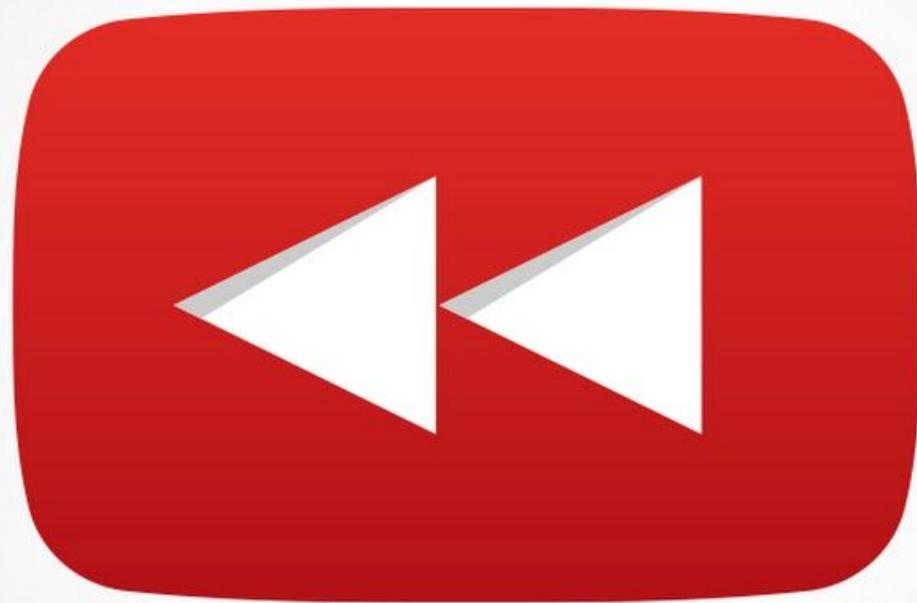
```
public int findDuplicate(int[] lst) {  
    HashSet<Integer> visited = new HashSet<Integer>();  
    for (int i = 0; i < lst.length; i++) {  
        if (visited.contains(lst[i])) {  
            return lst[i];  
        } else {  
            visited.add(lst[i]);  
        }  
    }  
}
```

**CASE 4:
FOLLOW-UP QUESTIONS**

CODE EXAMPLE 6

```
public int findDuplicate(int[] lst) {  
    for (int i = 0; i < lst.length; i++) {  
        for (int j = 0; j < lst.length; j++) {  
            if (i != j) {  
                if (lst[i] == lst[j]) {  
                    return lst[i];  
                }  
            }  
        }  
    }  
}
```

CASE 5: THE ARGUER



CODE EXAMPLE 7

```
public int findDuplicate(int[] lst) {  
  
    int pivot = (input.length+1)/2;  
    int lt = 0, gt = 0, eq = 0;  
    int lbound = 0;  
    int rbound = input.length;  
    while (lbound != rbound) {  
        for (int i = 0; i < input.length; i++) {  
            if (input[i] < pivot) { lt +=1; }  
            if (input[i] == pivot) { eq +=1; }  
            if (input[i] > pivot) { gt +=1; }  
        }  
        if (eq >1) { return pivot;  
        } else if (gt > input.length - pivot - 1) { lbound = pivot; pivot = (pivot + rbound + 1)/2;  
        } else if (lt > pivot - 1) { rbound = pivot; pivot = pivot/2;  
        }  
        lt = 0; gt = 0; eq = 0;  
    }  
    return -1;  
}
```

RECAP

- 1. Interview is not an objective process**
- 2. Performance is not a binary grade**
- 3. Knowing what the interviewer is looking for will set you apart**