

(Java Solutions)

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Problem 1 : Parity of Two Integers

Questions (2, 3, 4) were obtained from codesignal.com

Problem 2 : Circle Of Numbers

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Problem 4 : Check Palindrome

Bonus Problem:

Parity of 1s (Derived from Elements of Programming Interviews – Aziz, Lee, Prakash)

Problem 1 : Parity of Two Integers

```
boolean parity(int x, int y){ return (x%2) == (y%2); }
```

Problem 2: Circle Of Numbers

```
int circleOfNumbers(int n, int firstNumber) { int x = n/2; return (firstNumber+x)%n; }
```

Problem 3: Adjacent Elements Maximal Difference

```
int arrayMaximalAdjacentDifference(int[] inputArray) { int x = 0; for(int i = 0; i < inputArray.length-1; i++){ int y = (int)Math.abs(inputArray[i]-inputArray[i+1]); if(y>x) {x = y;} } return x; }
```

Problem 4: Check Palindrome

```
boolean checkPalindrome(String inputString) {int max = inputString.length(); for(int i = 0; i<=max; i++){ if(inputString.charAt(i)!= inputString.charAt(--max)){ return false; }} return true;}
```

Bonus Problem: Parity of 1s

TBU (To be Uploaded...)