#### **Answers**

## **First answer**

```
static int al(int[] a)
{
    if (a == null || a.length % 2 == 0) return 0;
    int midIndex = a.length / 2;
    int middleItem = a[midIndex];
    for (int i=0; i<a.length; i++)
    {
        if (i != midIndex && middleItem >= a[i])
            return 0;
    }
    return 1;
}
```

## **Second answer**

```
static int a2(int[] a)
{
  int sumEven = 0;
  int sumOdd = 0;

  for (int i=0; i<a.length; i++)
  {
    if (a[i]%2 == 0)
        sumEven += a[i];
    else
        sumOdd += a[i];
  }

  return sumOdd - sumEven;
}</pre>
```

### Third answer

```
static char[] a3(char[] a, int start, int length)
{
  if (length < 0 || start < 0 || start+length-1>=a.length)
  {
    return null;
  }

  char[] sub = new char[length];
  for (int i=start, j=0; j<length; i++, j++)
  {
    sub[j] = a[i];
  }</pre>
```

```
return sub;
```

### **Fourth answer**

```
static int a4(int n)
{
   int sign = 1;
   if (n == 0) return 0;
   if (n < 0)
   {
      sign = -1;
      n = -n;
   }
   int reverse = 0;
   while (n != 0)
   {
      reverse = (reverse * 10) + (n % 10);
      n /= 10;
   }
   return sign * reverse;
}</pre>
```

## Fifth answer

```
static int[] a5(int[] first, int[] second)
    if (first == null || second == null) return null;
    if (first.length == 0 || second.length == 0) return new int[0];
    int min =
        (first.length < second.length) ? first.length : second.length;</pre>
    int[] a, b;
    if (min == first.length)
        a = first;
        b = second;
    }
    else
        a = second;
        b = first;
    int[] c = new int[min];
    int k = 0;
    for (int i = 0; i < a.length; i++)</pre>
        for (int j = 0; j < b.length; j++)</pre>
            if (a[i] == b[j])
                c[k] = a[i];
                k++;
            }
     int[] retArray = new int[k];
     for (int t = 0; t < retArray.length; t++)</pre>
```

```
retArray[t] = c[t];
return retArray;
}
```

# **Sixth answer**

```
static int a6(int[] a)
{
    if (a.length < 3) return -1;</pre>
    int i = 0;
    int j = a.length - 1;
    int idx = 1;
    int leftSum = a[i];
    int rightSum = a[j];
    for (int k = 1; k < a.length - 2; k++)</pre>
        if (leftSum < rightSum)</pre>
            i++;
            leftSum += a[i];
           idx = i + 1;
        }
        else
            j--;
            rightSum += a[j];
            idx = j - 1;
     if (leftSum == rightSum)
        return idx;
     else
         return -1;
}
```