```
Problem1
```

```
public static boolean checkModify(int n)
{
    System.out.println("int methods");
    if (n > 0)
        return false;
    else
    {
        n = -n;
        return true;
    }
}
```

```
public static double evalPol(double A[],int n, double x)
{
    double pol = A[0];
    int d = 1;

    for (int i = 1 ; i <= n ; i++)
    {
        pol += A[i] * Math.pow(x,d);
        d++;
    }

    return pol;
}</pre>
```

```
Problem3
     public static <T> void exchange(T a[],int pos1,int pos2)
          T temp;
          temp = a[pos1];
          a[pos1] = a[pos2];
          a[pos2] = temp;
     }
     public static <T> int counting(T a[], T target)
          int count = 0;
          for (int i = 0; i < a.length; i++)
               if (a[i].equals(target))
                    count++;
          }
          return count;
     }
     public static <T> void reverse(T[] A, int n)
          try
          {
               int i = 0;
               int j = n;
               T temp;
               while(i < j)
               {
                    temp = A[i];
                    A[i] = A[j];
                    A[j] = temp;
                    i++;
                    j--;
               }
          catch(ArrayIndexOutOfBoundsException e)
               System.out.println("Value of n is out of range in the
array");
          }
     }
```

```
public class GArray<T>
     private T array[];
     public GArray(int size)
          try
          {
               array = (T[]) new Object[size];
          catch(NegativeArraySizeException e)
               array = (T[]) new Object[50];
          }
     }
     public T get(int i)
          try
          {
               return array[i];
          catch(IndexOutOfBoundsException e)
               System.out.println("Wrong index");
               return null;
          }
     }
     public void set(int i , T e)
          try
               array[i] = e;
          catch(IndexOutOfBoundsException exp)
               System.out.println("Can set new value");
          }
     }
}
```

```
public class Pair<T,U>
     public T first ;
     public U second ;
     public Pair ( T first , U second )
     {
          this.first = first;
          this.second = second;
     }
     public static <T,U> GArray<Pair<T,U>> pair(T[] A, U[] B, int n)
          try
          {
               GArray < Pair < T, U >> g = new GArray <> (n);
               for (int i = 0 ; i < n ; i++)
                    g.set(i, new Pair<T,U>(A[i], B[i]));
               return g;
          }
          catch(IndexOutOfBoundsException e)
               System.out.println("Index out of range in the array");
               return null;
          }
     }
}
```

```
public class Problem6
     public static void test()
          String ss[] = {"A", "K", "B", "M", "W", "J"};
          sort(ss, ss.length, false);
     }
     public static <T extends Comparable<T>> void sort(T[] A, int n,
boolean incr)
     {
          T temp;
          for (int i = 0; i < n - 1; i++)
               for (int j = i+1 ; j < n ; j++)
                    if (incr)
                         if (A[i].compareTo(A[j]) > 0)
                         {
                               temp = A[i];
                              A[i] = A[j];
                              A[j] = temp;
                         }
                    }
                    else
                    {
                         if (A[i].compareTo(A[j]) < 0)
                               temp = A[i];
                               A[i] = A[j];
                               A[j] = temp;
                         }
                    }
             }
         }
    }
}
```