fun main() {  
 val nums = *arrayListOf*(1,3,5,7,9)  
  
 val newArr = nums.*reverseArrayAfterSelectedIndex*()  
 val newArr2 = nums.*reverseArrayAfterSelectedIndex*(2)  
  
 *println*("New Array with default value: " + newArr.toString())  
  
 *println*("New Array with selected index two: " + newArr2.toString())  
}  
  
fun ArrayList<Int>.reverseArrayAfterSelectedIndex(index:Int = 0): ArrayList<Int> {  
  
 if (index < this.size && index >= 0) {  
 val sizeOfReversableElement = this.size - 1 - index  
  
 //If there is not enough element to reverse, then return the same array  
 if(sizeOfReversableElement === 0 || sizeOfReversableElement === 1)  
 return this  
  
 var result = *arrayListOf*<Int>()  
  
 //before index part  
 for (i in 0..index) {  
 result.add(this[i])  
 }  
  
 //after index part and reverse elements of array  
 for (i in (this.size - 1) *downTo* index+1) {  
 result.add(this[i])  
 }  
  
 return result  
 }else{  
 //if user enter a wrong input then system throw exception according to error type  
 if(index > 0)  
 throw Throwable("Index must be lower than array size(Your array size is: " + this.size + ")")  
 else  
 throw Throwable("Index must be greater than zero or equal to zero")  
 }  
}