```
fun <T> everyNth(L: List<T>, N: Int): List<T> {
    /* N is given to be a positive integer */
    val Nth: Int = N - 1
   val MAX: Int = L.size - 1
    /\star L can be any type so we use a supertype \star/
   var Nth list: MutableList<T> = mutableListOf<T>()
    /* for(i = N-1; i < L.size(); i += N) */
    for(index in Nth..MAX step N) {
        Nth list.add(L.get(index))
    }
    /* Convert our MutableList to a regular List
    * Kotlin's regular lists are readonly, hence immutable */
    val final list: List<T> = Nth list.toList()
   return final list
}
fun main() {
   println("Starting testing...")
   println()
    /* List of Ints */
   val L1: List<Int> = listOf(1,2,3,4,5,6,7,8,9,10)
   val N1: Int = 2
   val A1: List<Int> = listOf(2, 4, 6, 8, 10)
   val B1: List<Int> = everyNth(L1,N1)
    if(B1.equals(A1)) {
        println("Test1 successful.")
       println("L = " + L1)
       println("N = " + N1)
        println("Returned " + B1)
    }
    else {
       println("Test1 failed.")
        println("The list L = " + L1 + " with N = " + N1 + " yielded:")
        println(B1)
   println()
    /* List of Strings */
    val L2: List<String> =
listOf("a", "b", "c", "d", "e", "f", "g", "h", "i", "j")
    val N2: Int = 2
    val A2: List<String> = listOf("b","d","f","h","j")
    val B2: List<String> = everyNth(L2,N2)
    if(B2.equals(A2)) {
       println("Test2 successful.")
        println("L = " + L2)
       println("N = " + N2)
       println("Returned " + B2)
    }
    else {
        println("Test2 failed.")
        println("The list L = " + L2 + " with N = " + N2 + " yielded:")
       println(B2)
   println()
    /* List of Doubles */
```

```
val L3: List<Double> =
listOf(1.1,2.2,3.3,4.4,5.5,6.6,7.7,8.8,9.9,10.0)
   val N3: Int = 2
   val A3: List<Double> = listOf(2.2,4.4,6.6,8.8,10.0)
   val B3: List<Double> = everyNth(L3,N3)
    if(B3.equals(A3)) {
       println("Test3 successful.")
       println("L = " + L3)
       println("N = " + N3)
       println("Returned " + B3)
    else {
       println("Test3 failed.")
       println("The list L = " + L3 + " with N = " + N3 + " yielded:")
       println(B3)
    }
   println()
   println("Testing concluded.")
```