Northern Michigan University (Marquette Co, MI)

Time: 15 minutes

Write a Kotlin method named TheReverse. TheReverse should ask the user to enter a string. The string should be printed exactly as entered except that the three-letter sequence THE should be printed as EHT instead. You may assume that no lowercase letters will be in the string.

For example, if the user enters THERE IS NO THEREMIN IN ATHENS
the program should print: EHTRE IS NO EHTREMIN IN AEHTNS

```kotlin
fun TheReverse () {

 print ("Enter a string:  ")
 var s = readLine()!!.toCharArray()
 var i = 0
 while (i < s.size-3) {
  if (s[i]=='T' && s[i+1]=='H' && s[i+2]=='E') {
   s[i] = 'E'
   s[i+2] = 'T'
   i += 2
  }
  i += 1
 }
 println (String(s))
}
```

OR

```kotlin
fun TheReverse () {

 print ("Enter a string:  ")
 var s = readLine()!!
 var a:Char = '\u0000'
 var b:Char = '\u0000'
 for (ch in s) {
  if (a=='T' && b=='H' && ch=='E') {
   print ("EHT")
   a = '\u0000'
   b = '\u0000'
  } else {
   if (a != '\u0000') print (a)
   a = b
   b = ch
  }
 }
 if (a != '\u0000') print (a)
 if (b != '\u0000') print (b)
 println()
}
```