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Test Name:

Mock Test

Taken On:

9 May 2024 08:33:21 IST

Time Taken:

19 min 53 sec/ 20 min

Invited by:

Ankush

Invited on:

9 May 2024 08:33:07 IST

Skills Score:

Tags Score:

Algorithms 0/120

Core CS 0/120

Dynamic Programming 0/120

Medium 0/120

problem-solving 0/120

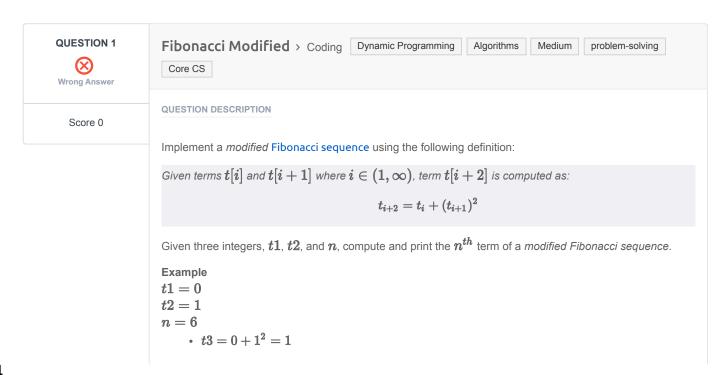
0% 0/120

scored in **Mock Test** in 19 min 53 sec on 9 May 2024 08:33:21 IST

Recruiter/Team Comments:

No Comments.





- $t4 = 1 + 1^2 = 2$
- $t5 = 1 + 2^2 = 5$
- $t6 = 2 + 5^2 = 27$

Return 27.

Function Description

Complete the $\it fibonacci Modified$ function in the editor below. It must return the $\it n^{th}$ number in the sequence.

fibonacciModified has the following parameter(s):

- int t1: an integer
- int t2: an integer
- int n: the iteration to report

Returns

ullet int: the n^{th} number in the sequence

Note: The value of t[n] may far exceed the range of a 64-bit integer. Many submission languages have libraries that can handle such large results but, for those that don't (e.g., C++), you will need to compensate for the size of the result.

Input Format

A single line of three space-separated integers, the values of t1, t2, and n.

Constraints

- $0 \le t1, t2 \le 2$
- $3 \le n \le 20$
- t_n may far exceed the range of a 64-bit integer.

Sample Input

```
0 1 5
```

Sample Output

5

Explanation

The first two terms of the sequence are t1=0 and t2=1, which gives us a modified Fibonacci sequence of $\{0,1,1,2,5,27,\ldots\}$. The 5^{th} term is 5.

CANDIDATE ANSWER

The candidate did not manually submit any code. The last compiled version has been auto-submitted and the score you see below is for the auto-submitted version.

Language used: Go

```
package main

import (
    "bufio"
    "fmt"
    "io"
    "os"
    "strconv"
    "strings"
    "math/big"

11
)
```

```
14
   * Complete the 'fibonacciModified' function below.
    * The function is expected to return an INTEGER.
    * The function accepts following parameters:
   * 1. INTEGER t1
   * 2. INTEGER t2
    * 3. INTEGER n
  func fibonacciModified(t1 *big.Int, t2 *big.Int, n *big.Int) *big.Int {
      // Write your code here
       temp arr := make([]*big.Int, n)
       temp arr[0] = new(big.Int).Set(t1)
       temp arr[1] = new(big.Int).Set(t2)
       for i := 2; i < n; i++ {
           temp arr[i] = new(big.Int).Add(temp arr[i-2],
   new(big.Int).Mul(temp arr[i-1], temp arr[i-1]))
       return temp_arr[n-1]
   func main() {
      reader := bufio.NewReaderSize(os.Stdin, 16 * 1024 * 1024)
41
      stdout, err := os.Create(os.Getenv("OUTPUT PATH"))
       checkError(err)
45
      defer stdout.Close()
47
       writer := bufio.NewWriterSize(stdout, 16 * 1024 * 1024)
       firstMultipleInput := strings.Split(strings.TrimSpace(readLine(reader)),
50 " ")
       t1Temp, err := strconv.ParseInt(firstMultipleInput[0], 10, 64)
       checkError(err)
       t1 := int32(t1Temp)
       t2Temp, err := strconv.ParseInt(firstMultipleInput[1], 10, 64)
       checkError(err)
       t2 := int32(t2Temp)
       nTemp, err := strconv.ParseInt(firstMultipleInput[2], 10, 64)
       checkError(err)
       n := int32(nTemp)
64
       result := fibonacciModified(t1, t2, n)
       fmt.Fprintf(writer, "%d\n", result)
       writer.Flush()
   func readLine(reader *bufio.Reader) string {
       str, , err := reader.ReadLine()
       if err == io.EOF {
          return ""
```

Result: Compilation Failed

Compile Message

```
# command-line-arguments
./Solution.go:27:34: invalid argument: index n (variable of type *big.Int)
must be integer
./Solution.go:31:21: invalid operation: i < n (mismatched types int and
*big.Int)
./Solution.go:35:23: cannot convert 1 (untyped int constant) to *big.Int
./Solution.go:63:33: cannot use t1 (variable of type int32) as type
*big.Int in argument to fibonacciModified
./Solution.go:63:37: cannot use t2 (variable of type int32) as type
*big.Int in argument to fibonacciModified
./Solution.go:63:41: cannot use n (variable of type int32) as type
*big.Int in argument to fibonacciModified</pre>
```

No Comments

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