Da Vinci Code.java

```
1/*UVa Online Judge Problem 11385 - Da Vinci Code (Accepted)
 6import java.util.*;
 8 class Da Vinci Code {
10
      static long fibIn[];
11
      static int fibIndex[];
12
      static long fib[] = new long[93];
13
      static String s;
14
      static char letter[];
15
      static Scanner scan = new Scanner(System.in);
16
      static Scanner strscan;
17
18
      public static void main(String[] args) {
19
20
           int T = scan.nextInt();
           int length;
21
22
           for(int i = 0; i<T; i++){</pre>
2.3
                   length = scan.nextInt();
24
                   fibIn = new long[length];
2.5
                   fibIndex = new int[length];
26
                   for (int j = 0; j < length; j++) {
27
                        fibIn[j] = scan.nextLong();
28
                    }
29
                   fib(92);
30
                   s = scan.nextLine();
31
                   s = scan.nextLine();
32 //
                   int temp = 0;
33
                   int max = 0;
34
                   for (int j = 0; j < fibIn.length; <math>j++) {
35
                        int x = 0;
36
                        while (fibIn[j]!=fib[x]) {
37
                            x++;
38
39
                        if (Math.max(x-1, max) > max)
40
                        {
41
                            max = x-1;
42
43
                        fibIndex[i]=x-1;
44 / /
                        System.out.print((x-1)+"");
```

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45
                    }
46
                    letter = new char[max];
47
                    Arrays.fill(letter, ' ');
48
49 / /
                    temp = 0;
50
                    strscan = new Scanner(s);
51
                    strscan.useDelimiter("");
52
                    int \dot{j} = 0;
53
                    while (strscan.hasNext())
54
                         if(s.charAt(j) == ', ' || s.charAt(j) == ' ') {
55 / /
56//
                             temp++;
57 / / / /
                                  System.out.println(">"+s+"<");</pre>
58 / /
59
                         char a = strscan.next().charAt(0);
60
                         if ((a) \leq 'Z' && (a) > 'A') {
61
                             letter[fibIndex[j]-1]=a;
62
                             j++;
63 / /
                             System.out.println(">"+a+"<");</pre>
64
65
                         if (j==length) break;
66
67
                    System.out.println(String.valueOf(letter));
68
69 / /
           System.out.println(Arrays.toString(fib));
70
71
       }
72
73
       //Returns the nth Fibonacci Sequence term
74
           static public long fib(long n)
75
           {
76//
                fibon = new long[(int)n+1];
77
                long fibo;
78
                if(n==0)
79
                    return 0;
80
                if(n==1)
81
                    return 1;
82
                if (fib[(int)n]!=0)
83
                    return fib[(int)n];
84
                else
```

Da_Vinci_Code.java fibo = fib(n-1) + fib(n-2); fib[(int)n] = fibo; return fibo; 88 } 90 91