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Discrete Structures

1/29/20

Fibonacci Numbers

I was asked to write a program that would show certain terms of the Fibonacci sequence.

I tried to change the project and accomplish it a different way, but it didn’t work so I just used the code that was given in the announcement.

I assumed it would be really hard to figure out the algorithm to code, however, once I read it and understood it, it wasn’t that bad.

**package** fib;

**public** **class** Main {

**public** **static** **void** main(String[] args) {

**int**[] bunnyCountPerMonth = **new** **int**[10];

bunnyCountPerMonth[0] = 0;

bunnyCountPerMonth[1] = 1;

**for**(**int** monthIndex = 2; monthIndex < bunnyCountPerMonth.length; monthIndex ++)

{

bunnyCountPerMonth[monthIndex] = bunnyCountPerMonth[monthIndex-1] + bunnyCountPerMonth[monthIndex-2];

}

System.***out***.println("For month 3, we had " + bunnyCountPerMonth[3-1] + " bunnies." );

System.***out***.println("For month 5, we had " + bunnyCountPerMonth[5-1] + " bunnies." );

System.***out***.println("For month 10, we had " + bunnyCountPerMonth[10-1] + " bunnies." );

}

}

For month 3, we had 1 bunnies.

For month 5, we had 3 bunnies.

For month 10, we had 34 bunnies.

I can kind of understand how it is working, but I definitely need more practice.