WIA2005 Algorithm Design &Analysis
Semester 2, 2016/17
Lab 10

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1. Implement the program that find the n^{th} Fibonacci number using dynamic programming approach.

2. Given an array of prices A = [1 5 8 9 10 17 17 20 24 30] where price at each index is the price obtained by selling rod of length equal to that index. Write a program that calculate the maximum price which can be obtained by selling pieces of that rod.

3. Given a set of non-negative distinct integers, and a value m, determine if there is a subset of the given set with sum divisible by m.

   Example:

```
Input : arr[] = {3, 1, 7, 5};
        m = 6;
Output : YES

Input : arr[] = {1, 6};
        m = 5;
Output : NO
```