Problem4_Polynominal

Akira MATSUI

March 23, 2017

Introduction

Define the polynomial function described below.

$$p(x) = a_0 + a_1 x + a_2 x^2 + ... + a_n x^n = \sum_{i=0}^{n} a_i x^i$$

Show out put when $x = 1, 2, ..., 10$ when $n = 2$

In this exercise, all of coefficients is one, except for $a_0 = 11$ but you are supposed to write a general code. In other word, your function has to be used to any n not only for $n = 2$.

Question

- write a code to caluculate polunominal
- set $a_0 = 0$ and $a_i = 1, i \geq 1$
- set $n = 2$
- At this time, you are supposed to write a code to caluculate $p(x) = 11 + x + x^2$.