C Language Programming: Homework #7
Assigned on 12/05/2017(Tuesday), Due on 12/12/2017(Tuesday)

Design a variable argument function that can compute any kind of polynomial such as $a_0 + a_1x^1 + a_2x^2 \ldots + a_nx^n$. Please use argv and argc in main to input.

Requirement:

Use ***va_list*** to design a function **compute(x, N, a0, …)** that return the result of polynomial $a_0 + a_1x^1 + a_2x^2 \ldots + a_nx^n$, **N** represent the number of parameter. Use argv to input variable **x**, call **compute(x, 3)**, **compute(x, 2, 4, 6)**, **compute(x, 1, 2, 0, 7, 5)** and print the result to the screen.

Example:

Your program must have these three function calls and you can only use a function **compute()**.

```
r1 = compute(x, 1, 3);
r2 = compute(x, 3, 2, 4, 6);
r3 = compute(x, 5, 1, 2, 0, 7, 5);
```

Command line:

```
>   ./hw7   [x]
```

Output:

Output the result of functions mentioned above to the screen.
(Note: **Don't** print any unnecessary message to screen, thank you.)

For example:

```
>   ./hw7   2
3
34
141
```

Score:

Use of *va_list*: 50%
Correctness: 30%
Command line input: 10%
Report: 10%