//Horner Polynomial

int co\_efficient[1000];

// Evaluate value of 2x3 - 6x2 + 2x - 1 for x = 3

Input: co\_efficient[] = {2, -6, 2, -1}, x = 3

Output: 5

//finds first solution for polynomial equations

//co\_efficients contains the co\_effecients (power) of i'th term

//crytical case : if co\_effecients are 5 4 3 1 0

//then convert it to 5 4 3 0 1 0

int co\_efficient[1000];

long long horner(long long x, long long n)

{

long long ans = co\_efficient[0];

for(int i = 1; i < n; i++) {

ans = ans\*x + co\_efficient[i];

}

return ans;

}

int main()

{

int n, x;

while(scanf("%d", &x) && x) {

for(int i = 0; i <= x; i++)

scanf("%d", &co\_efficient[i]);

n = x+1;

printf("%d\n", horner(x, n));

}

return 0;

}