費式數列

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\* File Name: Fibonacci.c

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\* Toolkit: Dev C++

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# include <stdlib.h>

# include <stdio.h>

int fib(int n){

if(n==0)

return 0;

if(n==1)

return 1;

return (fib(n-1)+fib(n-2));

}

int main(){

int input, i;

while(1){

printf("The 0th number is 0, and the first number is 1\n");

printf("ex : 0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, 233 ...\n\n");

printf("Please input an integer to show the last value of Fibonacci Sequence :\n");

scanf("%d", &input);

printf("\n");

if(input<0)

printf("\nInput cannot less than 0\n\n");

else{

for(i=0; i<=input; i++)

printf("%d ", fib(i));

}

printf("\n\n");

system("PAUSE");

system("CLS");

}

return 0;

}