Fibonacci number: 1,1,2,3,5,8,13

Without array:

#include<iostream>

using namespace std;

int main (){

int fib1 = 0;

int fib2 = 1;

int result = 0;

int A[10];

for (int i = 0 ; i<10 ; ++i){

if( i == 0 ){

cout <<fib1<<" ";

}

else if(i==1){

cout<<fib2<<" ";

}

else{

result = fib1 + fib2;

fib1=fib2;

fib2=result;

cout<<result<<" ";

}

}

return 0;

}

With array:

#include<iostream>  
using namespace std;

int main (){

int fib1 = 0;  
 int fib2 = 1;  
 int result = 0;  
 int A[10];  
 for (int i = 0 ; i<10 ; ++i){

if( i == 0 ){  
 A[i]= fib1;  
 }

else if(i==1){  
 A[i] = fib2;  
 }

else{  
 result = fib1 + fib2;  
 A[i] = result;  
 fib1=fib2;  
 fib2=result;  
 }  
 }

cout<<"The number in array are : "<<endl;

for(int i = 0 ; i<10 ; ++i){cout<< A[i] << " ";}  
 return 0;  
}