// C++ program to demonstrate working of accumulate()

#include <iostream>

#include <numeric>

using namespace std;

// User defined function

int myfun(int x, int y)

{

// for this example we have taken product

// of adjacent numbers

return x \* y ;

}

int main()

{

// Initialize sum = 1

int sum = 1;

int a[] = {5 , 10 , 15} ;

// Simple default accumulate function

cout << "\nResult using accumulate: ";

cout << accumulate(a , a+3 , sum);

// Using accumulate function with

// defined function

cout << "\nResult using accumulate with"

"user-defined function: ";

cout << accumulate(a, a+3, sum, myfun);

// Using accumulate function with

// pre-defined function

cout << "\nResult using accumulate with "

"pre-defined function: ";

cout << accumulate(a, a+3, sum, std::minus<int>());

return 0;

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