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/*This programme fills a 20 elements array with random numbers and checks if their sum reached a given number
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it terminates by either the sum being met or the 20 elements being filled*/
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#include <iostream>
#include <stdlib.h>
#include <time.h>
using namespace std;

void main() {

    int MinSum{ 100000 }; // The minimum sum we want
    int currentSum{ 0 }; // sum up to value 'i'
    unsigned int i{ 0 }; // index
    int Array[20]; // declare 20 elements array
    srand(time(NULL)); // Initialise the random seed of the random generator

    // Loop part
    while ((currentSum < MinSum) && (i < 20))
        // The body of the while loop
        {
            Array[i] = rand(); // initialization of the element i with a random number
            currentSum += Array[i];
            i++;
        }

    // Output part
    if (currentSum > MinSum)
    { // If minimum is met
        cout << "Position " << i << " adds up to: " << currentSum << "\n";
    }
    else { // If minimum not met at end of array
        cout << "The total array is only" << currentSum << " and does not reach
the minimum sum " << "\n";
    }

    system("pause");

}
```