Week 7 Programming Assignment 1

Due on 2020-03-18, 23:59 IST

The input for this program consists of numbers n, a0, a1, ..., a(n-1), b0, b1, b(n-1). In this, ai and bi are supposed to be the ith least significant digits of numbers A, B. You are supposed to print the digits of the sum of A, B, again from least significant to the most significant - one per line. Note that the sum can have n+1 digits, and so you should print n+1 digits, with the most significant digit being possibly 0. You may assume that the size of an array can be a value that is known only during execution. For example, it is OK to write "int n; cin >>n; int A[n];"

Sample Test Cases

<table>
<thead>
<tr>
<th>Input</th>
<th>Output</th>
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Lecture 15:
Array Part-1:
Part 2: Marks averaging problem (unit? unit=92&lesson=99)

Lecture 15:
Array Part-1:
Part 3: Histogram computation (unit? unit=92&lesson=100)

Lecture 15:
Array Part-1:
Part 4: Marks display variation (unit? unit=92&lesson=101)

Lecture 15:
Array Part-1:
Part 5: Polynomial multiplication (unit? unit=92&lesson=102)

Lecture 15:
Array Part-1:
Part 6: Queues in dispatching taxis (unit? unit=92&lesson=103)

Lecture 15:
Array Part-1:
Part 7: More efficient Queues in dispatching taxis (unit? unit=92&lesson=104)

Lecture 15:
Array Part-1:
Part 8: Disk intersection (unit? unit=92&lesson=105)

Lecture 15:
Array Part-1:
Part 9: Arrays of graphical objects and conclusion (unit? unit=92&lesson=106)
The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Sample solutions (Provided by instructor)

```cpp
#include <iostream>
define repeat(x) for(int _iterator_i = 0, _iterator_limit = x; _iterat
#define main_program int main()
#include <cmath>
using namespace std;
int main()
for(int i=0; i<n; i++)
cin >> A[i];
for(int i=0; i<n; i++)
cin >> B[i];

int carry = 0;
for(int i=0; i<n; i++){
    cout << (carry + A[i] + B[i]) % 10 << endl;
    carry = (carry + A[i] + B[i]) / 10;
}
```

Test Case 4

```
20
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