CIS 310 – Yoon – Program 2

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Due: 2/26/18

Code:

TITLE Program2

INCLUDE Irvine32.inc

.data

.386

.model flat,stdcall

.stack 4096

ExitProcess proto,dwExitCode:dword

RAW WORD 8, 19, 14, 27, 6, 20, 18, 12,23, 27, 31, 22, 17, 26, 7

DIFFSQ WORD 15 DUP(?)

SQUARE WORD 15 DUP(?)

MEAN WORD ?

m BYTE "MEAN: ", 0

v BYTE "VAR: ", 0

.code

main proc

mov edi, OFFSET RAW

mov ecx, LENGTHOF RAW

mov eax, 0

L1:

add ax, [edi]

add edi, TYPE RAW

loop L1

mov ecx, LENGTHOF RAW

mov dx, 0

div cx

mov MEAN, ax

mov edx, OFFSET m

call WriteString

call WriteDec

call CRLF

mov edi, OFFSET RAW

mov esi, OFFSET DIFFSQ

mov ecx, LENGTHOF RAW

mov eax, 0

L2:

mov ax, [edi]

sub ax, MEAN

mov bx, ax

mul bx

mov [esi], eax

add edi, TYPE RAW

add esi, TYPE DIFFSQ

loop L2

mov edi, OFFSET DIFFSQ

mov ecx, LENGTHOF DIFFSQ

mov eax, 0

L3:

add ax, [edi]

add edi, TYPE DIFFSQ

loop L3

mov ecx, LENGTHOF RAW

mov dx, 0

div cx

mov edx, OFFSET v

call WriteString

call WriteDec

call CRLF

invoke ExitProcess, 0

main endp

end main

Screenshot:

