|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| № | *a* | *b* | *c* | *d* |
| 18 | 13 | -43 | 23 | -8 |

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template.asm

1 0000 sseg segment stack 'stack' ;stack

2 0000 80\*(??) db 128 dup(?)

3 0080 sseg ends

4

5 0000 dseg segment 'data' ;data

6 0000 0D a db 13

7 0001 D5 b db -43

8 0002 17 c db 23

9 0003 F8 d db -8

10 0004 ???? r dw ?

11 0006 dseg ends

12

13 0000 cseg segment 'code' ;code

14 assume cs:cseg, ds:dseg, ss:sseg

15

16 0000 B8 0000s start: mov ax, dseg

17 0003 8E D8 mov ds, ax

18

19 0005 33 DB xor bx, bx

20 0007 8A 3E 0001r mov bh, b; bh=b

21 000B 02 3E 0002r add bh, c; bh=b+c

22 000F A0 0000r mov al, a; al=a

23 0012 F6 2E 0001r imul b; ax=a\*b

24 0016 F6 FF idiv bh; al=a\*b/(b+c)

25 0018 8A E8 mov ch, al; ch=a\*b/(b+c) //p1 (used atm: ch) +

26

27 001A 8A 1E 0003r mov bl, d; bl=d

28 001E 2A 1E 0000r sub bl, a; bl=d-a

29 0022 A0 0002r mov al, c; al=c

30 0025 F6 2E 0003r imul d; ax=c\*d

31 0029 F6 FB idiv bl; al=c\*d/(d-a) //p2 (used atm: ch,al) +

32

33 002B 02 C5 add al, ch; al=a\*b/(b+c)+c\*d/(d-a)

34 002D 8A C8 mov cl, al; cl=a\*b/(b+c)+c\*d/(d-a)

35 002F F6 E9 imul cl; ax=(a\*b/(b+c)+c\*d/(d-a))^2

36 0031 8B C8 mov cx, ax; cx=(a\*b/(b+c)+c\*d/(d-a))^2 //p3 (used atm: cx) +

37

38 0033 B8 0262 mov ax, 610; ax=610

39 0036 BA 0002 mov dx, 2; dx=2

40 0039 F7 EA imul dx; ax=610\*2 //p4 (used atm: ax,cx) +

41

42 003B 2B C8 sub cx, ax;cx=(a\*b/(b+c)+c\*d/(d-a))^2-610\*2

43 003D 89 0E 0004r mov r, cx; r=cx=(a\*b/(b+c)+c\*d/(d-a))^2-610\*2 //r (used atm: cx)

44

45 0041 B4 4C mov ah, 4Ch; back to OS

46 0043 CD 21 int 21h

47 0045 cseg ends

48 end start

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Symbol Table

Symbol Name Type Value

??DATE Text "09/24/19"

??FILENAME Text "template"

??TIME Text "17:14:23"

??VERSION Number 0300

@CPU Text 0101H

@CURSEG Text CSEG

@FILENAME Text TEMPLATE

@WORDSIZE Text 2

A Byte DSEG:0000

B Byte DSEG:0001

C Byte DSEG:0002

D Byte DSEG:0003

R Word DSEG:0004

START Near CSEG:0000

Groups & Segments Bit Size Align Combine Class

CSEG 16 0045 Para none CODE

DSEG 16 0006 Para none DATA

SSEG 16 0080 Para Stack STACK