

2020 augustus examen

de oplossingen van verschillende studenten voor het augustus examen. Met dank aan ISW en natuurlijk de betrokken studenten:

Elias Beddegenoodts:

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```
%include 'gt.asm'
```

```
covar
```

```
inarea: resb 70
```

```
outarea: times 70 db ( ' '
```

```
db 0Ah
```

```
aantalliter: resd 1
```

```
aantalkm: resd 1
```

```
duizend: dd 1000
```

```
result: resd 1
```

```
een: dd 1
```

```
aantalwagens: resd 1
```

```
inleiding
```

```
sub eax, eax
```

```
mov ebx, 0
```

```
openin
```

```
openuit
```

```
;lezen lijn per lijn
```

```
volgendelijn:
```

```
lees
```

```
cmp eax, 0
```

```
je einde
```

```
mov ecx, 70
```

```
mov al, ' '
```

```
mov edi, outarea
```

```
rep stosb
```

```
;bestaande inhoud inarea naar outarea plaatsen
```

```
mov ecx, 34
```

```
mov esi, inarea
```

```
mov edi, outarea
```

```
rep movsb
```

```
;liter to Int
```

```
mov ecx, 4
```

```
mov esi, inarea + 30
```

```
tekstbin
```

```
mov [aantalliter], eax
```

```
; km to Int
```

```
mov ecx, 5
```

```
mov esi, inarea + 20
```

```
tekstbin
```

```
mov [aantalkm], eax
```

```
;berekening
```

```
mov eax, [aantalliter]
```

```
imul dword [duizend]
```

```
idiv dword [aantalkm]
```

```
cmp eax, 60
```

```
jg jump
```

```
mov [result], eax
```

```
;schrijven in uitvoer
```

```
mov ecx, 2
```

```
mov eax, [result]
```

```
mov edi, outarea + 40
```

```
call omzetascii
```

```
schrijf
```

```
jump:
```

```
jmp volgendelijn
```

```
omzetascii:
```

```
mov ebx, 10
```

```
std
```

```
lus:
```

```
mov edx, 0
```

```
idiv ebx
```

```
or dl, 30h
```

```
xchg al, dl
```

```
stosb
```

```
xchg al, dl
```

```
cmp eax, 0
```

```
jne lus
```

```
cld
```

```
ret
```

einde:

slot

Lukas De Ruyscher:

□

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%include "gt.asm"

covar

inarea: resb 70

outarea: resb 70

db 0Ah

txtPercent: db '% van de wagens heeft een verbruik onder de 60.'

aantalOnder: dd 0

aantalRecords: dd 0

honderd: dd 100

duizend: dd 1000

zestig: dd 60

aantalKM: resd 1

aantalLiter: resd 1

verbruik: resd 1

hulp: resd 1

percentage: resd 1

inleiding

sub eax, eax

sub ebx, ebx

sub ecx, ecx

sub edx, edx

openin

openuit

lezen:

lees

cmp eax, 0

je einde

;outarea leegmaken

mov ecx, 70

mov al, ' '

mov edi, outarea

rep stosb

;aantal liters lezen

mov ecx, 5

mov esi, inarea + 30

tekstbin

mov [aantalLiter], eax

;aantal km lezen

```
mov ecx, 5
mov esi, inarea + 20
tekstbin
mov [aantalKM], eax
```

;verbruik berekenen

```
mov eax, [aantalLiter]
imul dword [duizend]
idiv dword [aantalKM]
mov [verbruik], eax
mov ebx, [aantalRecords]
add ebx, 1
mov [aantalRecords], ebx
cmp eax, [zestig]
jl minder
jmp lezen
```

;aantal bijhouden en percentage te berekenen

minder:

```
mov ebx, [aantalOnder]
add ebx, 1
mov [aantalOnder], ebx
```

```
mov ecx, 35
mov esi, inarea
mov edi, outarea
rep movsb
```

```
mov ecx, 3
mov eax, [verbruik]
call omzetascii
mov edi, outarea + 40
jmp lezen
```

einde:

```
mov eax, [aantalOnder]
imul dword [honderd]
```

```
idiv dword [aantalRecords]
```

```
mov [percentage], eax
```

```
mov edi, outarea
```

```
call omzetascii
```

```
mov ecx, 47
```

```
mov esi, txtPercent
```

```
mov edi, outarea + 3
```

```
rep movsb
```

```
schrijf
```

```
slot
```

```
omzetascii:
```

```
mov ebx,10
```

```
std
```

```
lus:
```

```
mov edx,0
```

```
idiv ebx
```

```
or dl,30h
```

```
xchg al,dl
```

```
stosb
```

```
xchg al,dl
```

```
cmp eax,0
```

```
jne lus
```

```
ret
```

Timo Taverniers:

□

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%include "gt.asm"

covar

inarea: resb 70

outarea: times 70 db (' '

db 0Ah

uitvoerlijn:db '% van de wagens heeft een verbruik onder de 60.'

km: resd 1

L: resd 1

resultaat: resd 1

aantal: resd 1

eco: resd 1

inleiding

sub eax, eax

sub edx, edx

sub ecx, ecx

sub ebx, ebx

sub esi, esi

sub edi, edi

openin

openuit

cld

next:

lees

cmp eax, 0

je einde

mov esi, inarea

lodsb

mov edi, outarea

mov al, ' '

mov ecx, 70

rep stosb

mov edi, outarea

mov esi, inarea

mov ecx, 34

rep movsb

mov eax, 0

mov esi, inarea+20

mov ecx, 5

tekstbin

mov [km], eax

uit [km]

mov eax, 0

mov esi, inarea+31

mov ecx, 4

tekstbin

mov [L], eax

uit [L]

mov eax, [L]

mov edx, 0

```
mov ebx, 1000
imul ebx
mov edx, 0
mov ebx, [km]
idiv ebx
mov [resultaat], eax
;uit [resultaat]
;
std
mov eax, [resultaat]
mov ebx, 10
mov edi, outarea+41
lus: mov edx, 0
idiv ebx
or dl, 30h
xchg al, dl
stosb
xchg al, dl
cmp eax, 0
jne lus
cld
;
schrijf

mov eax, [aantal]
add eax, 1
mov [aantal], eax
mov eax, [resultaat]
cmp eax, 60
jg next
mov eax, [eco]
add eax, 1
mov [eco], eax

jmp next
;
einde:
;uit [aantal]
;uit [eco]
;
```

```
mov edx, 0
mov eax, [eco]
mov ebx, 100
imul ebx
mov ebx, [aantal]
idiv ebx
mov [resultaat], eax
;uit [resultaat]
```

```
mov edi, outarea
mov ecx, 70
mov al, ' '
rep stosb
;
mov eax, [resultaat]
cmp eax, 100
je eindec
;
std
mov eax, [resultaat]
mov ebx, 10
mov edi, outarea+1
eilu:mov edx, 0
idiv ebx
or dl, 30h
xchg al, dl
stosb
xchg al,dl
cmp eax, 0
jne eilu
cld
```

```
mov esi, uitvoerlijn
mov edi, outarea+2
mov ecx, 47
rep movsb
```

```
schrijf
jmp eindefinaal
```

eindec:

std

mov eax, [resultaat]

mov ebx, 10

mov edi, outarea+2

eiluc: mov edx, 0

idiv ebx

or dl, 30h

xchg al, dl

stosb

xchg al, dl

cmp eax, 0

jne eiluc

cld

mov esi, uitvoerlijn

mov edi, outarea+3

mov ecx, 47

rep movsb

schrijf

eindefinaal:

□slot

Onbekend theorie oplossing:

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173

128

45

32

13

08

05

04

1

1

0

0000 0000 0000 0000 0000 0000 1010 1101

1111 1111 1111 1111 1111 1111 0101 0010

0000 0000 0000 0000 0000 0000 0000 0001

1111 1111 1111 1111 1111 1111 0101 0011

FFFFFF53

77

64

13

8

4

1

0000 0000 0000 0000 0000 0000 0100 1101

0000004D

94

64

30

16

14

8

6

4

--

2

2

--

0

0000 0000 0000 0000 0000 0000 0101 1110

1111 1111 1111 1111 1111 1111 1010 0001
0000 0000 0000 0000 0000 0000 0000 0001

1111 1111 1111 1111 1111 1111 1010 0010
FFFFFFA2

173

6

1038

1024

0014

0000 0000 0000 0000 0000 0100 0000 1110
0000040E

13

Bevel 1 na 7

2 na 8

3 na 9

4 10

5 11

6 12

7 13

8 14

9 15

10 16

11 17

12 18

13 19

14 20

15 21

16 22

17 23

18 24

19 25

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23 29

24 30

25 31

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34 40

35 41

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Revision #1

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