

# 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:

□

Name

Size

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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:

□

Name

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□

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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

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45

32

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13

08

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05

04

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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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24 30

25 31

26 32

27 33

28 34

29 35

30 36

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32 38

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34 40

35 41

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Revision #1

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