

## werkgeheugen

TE - E < 10									
-	1	2	3	4	5	6	7	8	9
11	3 sec	4 sec	6 sec	10 sec	6 sec	6 sec	11 sec	12 sec	
12		7 sec	7 sec	8 sec	7 sec	7 sec	10 sec	11 sec	
13			15 sec	15 sec	7 sec	8 sec	7 sec	11 sec	
14				8 sec	15 sec	8 sec	11 sec	6 sec	
15					8 sec	12 sec	5 sec	11 sec	
16						11 sec	4 sec	5 sec	
17							6 sec	6 sec	
18								7 sec	
19									
20									

Naam:  
donderdag 24/11/2011 17u22  
36 bewerkingen, 36 uitgevoerd, 0 resterend  
Behaalde resultaat : 36 / 36 (100 procent)  
Totale tijd : 5 minuten 12 seconden

alles goed uitgekend,  
maar niet uit het langetermijngeheugen gehaald

## concept '0'

X	1	2	3	4	5	6	7	8	9	10
0	3 sec	6 sec	2 sec	4 sec	4 sec	5 sec	4 sec	4 sec	2 sec	10 sec
1	2 sec	2 sec	2 sec	2 sec	12 sec	2 sec	4 sec	2 sec	5 sec	5 sec
2	3 sec	3 sec	4 sec	6 sec	7 sec	4 sec	9 sec	5 sec	5 sec	5 sec
3	3 sec	3 sec	3 sec	7 sec	5 sec	6 sec	7 sec	6 sec	5 sec	5 sec
4	9 sec	5 sec	4 sec	6 sec	4 sec	12 sec	24 sec	6 sec	7 sec	5 sec
5	3 sec	5 sec	5 sec	5 sec	6 sec	9 sec	6 sec	10 sec	4 sec	5 sec
6	3 sec	5 sec	9 sec	11 sec	4 sec	5 sec	6 sec	7 sec	8 sec	3 sec
7	3 sec	11 sec	4 sec	14 sec	6 sec	6 sec	3 sec	11 sec	7 sec	8 sec
8	3 sec	5 sec	4 sec	4 sec	9 sec	6 sec	10 sec	7 sec	7 sec	4 sec
9	6 sec	8 sec	13 sec	13 sec	7 sec	7 sec	12 sec	10 sec	5 sec	7 sec
10	4 sec	9 sec	4 sec	4 sec	5 sec	12 sec	8 sec	11 sec	6 sec	6 sec

Naam:  
vrijdag 05/06/2010 09u26  
Behaalde resultaat : 107 / 110  
Totale tijd : 12 minuten 18 seconden

omgaan met de 0-waarde

## buffer- en backupstrategie

X	1	2	3	4	5	6	7	8	9	10
0	1 sec	1 sec	1 sec	4 sec	1 sec	1 sec	1 sec	1 sec	0 sec	0 sec
1	1 sec	1 sec	1 sec	1 sec	1 sec	1 sec	1 sec	1 sec	1 sec	1 sec
2	1 sec	2 sec	3 sec	1 sec	2 sec	2 sec	3 sec	2 sec	3 sec	1 sec
3	1 sec	2 sec	2 sec	1 sec	2 sec	2 sec	2 sec	2 sec	3 sec	3 sec
4	1 sec	1 sec	1 sec	4 sec	3 sec	1 sec	1 sec	1 sec	2 sec	2 sec
5	1 sec	3 sec	1 sec	1 sec	1 sec	2 sec	2 sec	2 sec	1 sec	1 sec
6	1 sec	3 sec	1 sec	1 sec	2 sec	2 sec	4 sec	2 sec	2 sec	1 sec
7	2 sec	3 sec	3 sec	2 sec	2 sec	2 sec	24 sec	3 sec	10 sec	1 sec
8	1 sec	2 sec	3 sec	6 sec	2 sec	2 sec	2 sec	3 sec	8 sec	2 sec
9	1 sec	1 sec	2 sec	2 sec	2 sec	8 sec	3 sec	7 sec	2 sec	2 sec
10	1 sec	4 sec	3 sec	1 sec	1 sec	1 sec	1 sec	1 sec	1 sec	1 sec

Naam:  
woensdag 01/12/2010 16u58  
Behaalde resultaat : 103 / 110  
Totale tijd : 5 minuten 11 seconden

leren narekenen bij twijfel

## 5- effect

X	1	2	3	4	5	6	7	8	9	10
0	3 sec	9 sec	2 sec	2 sec	4 sec	1 sec	8 sec	2 sec	3 sec	2 sec
1	2 sec	3 sec	3 sec	5 sec	3 sec	3 sec	3 sec	2 sec	3 sec	9 sec
2	7 sec	5 sec	6 sec	3 sec	8 sec	1 sec	8 sec	22 sec	5 sec	4 sec
3	4 sec	3 sec	4 sec	14 sec	10 sec	3 sec	23 sec	26 sec	25 sec	7 sec
4	2 sec	4 sec	10 sec	14 sec	3 sec	18 sec	10 sec	10 sec	12 sec	3 sec
5	2 sec	18 sec	8 sec	3 sec	5 sec	10 sec	4 sec	14 sec	8 sec	2 sec
6	2 sec	18 sec	14 sec	4 sec	5 sec	10 sec	10 sec	15 sec	5 sec	1 sec
7	5 sec	3 sec	5 sec	22 sec	4 sec	5 sec	11 sec	58 sec	8 sec	4 sec
8	2 sec	9 sec	9 sec	12 sec	6 sec	6 sec	49 sec	63 sec	71 sec	3 sec
9	3 sec	30 sec	14 sec	5 sec	16 sec	6 sec	12 sec	71 sec	6 sec	3 sec
10	6 sec	2 sec	5 sec	6 sec	6 sec	6 sec	2 sec	4 sec	3 sec	4 sec

Naam:  
woensdag 09/06/2010 14u50  
Behaalde resultaat : 105 / 110  
Totale tijd : 18 minuten 11 seconden

factor 5 is sneller gekend

Een degelijke  
basis voor  
efficiënte  
remediëring

LEGENDE				TOTALEN	
min.	max.	goed	fout	goed	fout
0 sec	5 sec	76	1		
6 sec	10 sec	18	2		
11 sec	15 sec	7	0		
16 sec	∞	6	0	107	3

knopen

## langetermijngeheugen

TE - E >= 10										
-	0	1	2	3	4	5	6	7	8	9
11	3 sec	3 sec								
12	2 sec	2 sec	3 sec							
13	2 sec	3 sec	7 sec	2 sec						
14	7 sec	5 sec	2 sec	5 sec	2 sec					
15	3 sec	5 sec	3 sec	2 sec	3 sec	2 sec				
16	4 sec	2 sec	3 sec	3 sec	2 sec	2 sec	3 sec			
17	3 sec	3 sec	4 sec	4 sec	3 sec	2 sec	2 sec			
18	3 sec	3 sec	6 sec	3 sec	4 sec	3 sec	5 sec	2 sec		
19	3 sec	3 sec	4 sec	4 sec	5 sec	3 sec	3 sec	2 sec	2 sec	
20	5 sec	3 sec	3 sec	3 sec	3 sec	9 sec	3 sec	2 sec	3 sec	2 sec

Naam:  
donderdag 01/03/2012 18u03  
64 bewerkingen, 64 uitgevoerd, 0 resterend  
Behaalde resultaat : 63 / 64 (98 procent)  
Totale tijd : 4 minuten 3 seconden

niet meer uitrekenen

## concept '1'

Deeltafels										
X	1	2	3	4	5	6	7	8	9	10
1	2:2	3:3	4:4	5:5	6:6	7:7	8:8	9:9	10:10	
2	2:1	2:2	6:3	8:4	10:5	12:6	14:7	16:8	18:9	20:10
3	3:1	6:2	3:3	12:4	15:5	18:6	21:7	24:8	27:9	30:10
4	4:1	8:2	12:3	3:4	12:5	16:6	20:7	24:8	28:9	32:10
5	5:1	10:2	15:3	20:4	25:5	30:6	35:7	40:8	45:9	50:10
6	6:1	12:2	18:3	24:4	30:5	36:6	42:7	48:8	54:9	60:10
7	7:1	14:2	21:3	28:4	35:5	42:6	49:7	56:8	63:9	70:10
8	8:1	16:2	24:3	32:4	40:5	48:6	56:7	64:8	72:9	80:10
9	9:1	18:2	27:3	36:4	45:5	54:6	63:7	72:8	81:9	90:10
10	10:1	20:2	30:3	40:4	50:5	60:6	70:7	80:8	90:9	100:10

Naam:  
woensdag 11/01/2012 13u36  
100 bewerkingen, 100 uitgevoerd, 0 resterend  
Behaalde resultaat : 98 / 100 (98 procent)  
Totale tijd : 10 minuten 47 seconden

omgaan met de 1-waarde

## rekenprocedures

X	1	2	3	4	5	6	7	8	9	10
0	2 sec	2 sec	2 sec	3 sec	2 sec	3 sec	2 sec	4 sec	3 sec	3 sec
1	3 sec	3 sec	2 sec	3 sec	2 sec	3 sec	2 sec	4 sec	4 sec	4 sec
2	3 sec	3 sec	4 sec	6 sec	3 sec	5 sec	10 sec	6 sec	7 sec	4 sec
3	4 sec	9 sec	4 sec	6 sec	11 sec	8 sec	5 sec	22 sec	9 sec	5 sec
4	5 sec	7 sec	18 sec	9 sec	6 sec	6 sec	21 sec	40 sec	24 sec	4 sec
5	3 sec	9 sec	10 sec	4 sec	7 sec	13 sec	40 sec	24 sec	7 sec	5 sec
6	6 sec	9 sec	14 sec	31 sec	20 sec	32 sec	38 sec	46 sec	55 sec	4 sec
7	3 sec	9 sec	7 sec	6 sec	36 sec	36 sec	36 sec	64 sec	45 sec	3 sec
8	6 sec	7 sec	22 sec	30 sec	27 sec	27 sec	66 sec	21 sec	13 sec	5 sec
9	5 sec	6 sec	19 sec	24 sec	9 sec	52 sec	14 sec	62 sec	12 sec	7 sec
10	3 sec	4 sec	4 sec	4 sec	6 sec	6 sec	10 sec	3 sec	5 sec	5 sec

Naam:  
woensdag 24/11/2010 16u12  
Behaalde resultaat : 93 / 110  
Totale tijd : 24 minuten 41 seconden

leren hoe uit te rekenen

## knoopeffect

Maaltafels										
X	1	2	3	4	5	6	7	8	9	10
0	2 sec	1 sec	2 sec	1 sec	1 sec	1 sec	1 sec	2 sec	1 sec	2 sec
1	1 sec	1 sec	2 sec	2 sec	2 sec	1 sec	2 sec	2 sec	2 sec	3 sec
2	3 sec	4 sec	3 sec	5 sec	3 sec	4 sec	4 sec	5 sec	2 sec	1 sec
3	2 sec	3 sec	3 sec	3 sec	3 sec	12 sec	17 sec	12 sec	21 sec	2 sec
4	1 sec	2 sec	1 sec	1 sec	7 sec	13 sec	4 sec	14 sec	8 sec	2 sec
5	2 sec	2 sec	3 sec	6 sec	2 sec	7 sec	11 sec	7 sec	4 sec	3 sec
6	2 sec	9 sec	6 sec	10 sec	9 sec	8 sec	37 sec	9 sec	3 sec	2 sec
7	2 sec	4 sec	4 sec	11 sec	29 sec	26 sec	26 sec	11 sec	6 sec	2 sec
8	1 sec	5 sec	6 sec	9 sec	8 sec	10 sec	53 sec	12 sec	7 sec	2 sec
9	2 sec	3 sec	21 sec	5 sec	3 sec	7 sec	7 sec	5 sec	3 sec	2 sec
10	3 sec	3 sec	4 sec	2 sec	2 sec	5 sec	2 sec	2 sec	2 sec	3 sec

Naam:  
dinsdag 14/02/2012 16u32  
110 bewerkingen, 110 uitgevoerd, 0 resterend  
Behaalde resultaat : 107 / 110 (97 procent)  
Totale tijd : 10 minuten 57 seconden

tweelingsommen zijn sneller gekend

## decompositie

Maaltafels										
X	1	2	3	4	5	6	7	8	9	10
0	3 sec	3 sec	1 sec	2 sec	5 sec	6 sec	2 sec	2 sec	3 sec	2 sec
1	3 sec	3 sec	1 sec	2 sec	3 sec	3 sec	3 sec	3 sec	3 sec	1 sec
2	2 sec	2 sec	8 sec	11 sec	6 sec	9 sec	4 sec	4 sec	11 sec	7 sec
3	6 sec	3 sec	2 sec	2 sec	3 sec	3 sec	9 sec	6 sec	6 sec	4 sec
4	17 sec	19 sec	4 sec	2 sec	17 sec	17 sec	14 sec	14 sec	17 sec	4 sec
5	5 sec	3 sec	3 sec	3 sec	3 sec	3 sec	5 sec	5 sec	10 sec	4 sec
6	3 sec	3 sec	11 sec	18 sec	7 sec	7 sec	7 sec	7 sec	14 sec	4 sec
7	4 sec	3 sec	3 sec	8 sec	8 sec	10 sec	8 sec	2 sec	12 sec	3 sec
8	4 sec	3 sec	10 sec	14 sec	18 sec	14 sec	11 sec	11 sec	12 sec	2 sec
9	3 sec	3 sec	8 sec	10 sec	14 sec	10 sec	10 sec	10 sec	2 sec	1 sec
10	4 sec	2 sec	3 sec	6 sec	4 sec	3 sec	3 sec	3 sec	3 sec	1 sec

E + E > 10									
+	1	2	3	4	5	6	7	8	9
11	5 sec	4 sec	6 sec	10 sec	10 sec	6 sec	6 sec	11 sec	13 sec
12		7 sec	7 sec	8 sec	7 sec	10 sec	11 sec		
13			15 sec	15 sec	7 sec	8 sec	7 sec	11 sec	
14				6 sec	6 sec	4 sec	4 sec	6 sec	
15				4 sec	2 sec	5 sec	4 sec	11 sec	
16				5 sec	3 sec	10 sec	7 sec	3 sec	
17				4 sec	17 sec	3 sec	3 sec	3 sec	
18							6 sec	6 sec	
19									
20									

terugkeren naar de basisvaardigheid

## te traag

TE + E <= 20									
+	1	2	3	4	5	6	7	8	9
11	13 sec	13 sec	17 sec	13 sec	9 sec	13 sec	18 sec	8 sec	13 sec
12	12 sec	13 sec	10 sec	10 sec	14 sec	14 sec	8 sec	13 sec	
13	15 sec	9 sec	12 sec	12 sec	18 sec	17 sec	14 sec	11 sec	
14	11 sec	15 sec	15 sec	5 sec	8 sec	7 sec			
15	9 sec	14 sec	18 sec	8 sec	7 sec				
16	14 sec	13 sec	19 sec	26 sec					
17	13 sec	23 sec	19 sec	</					