

Ex1:

C:\Users\bassa\OneDrive\المستندات\MyMips\largest.asm - MARS 4.5

File Edit Run Settings Tools Help

Run speed at max (no interaction)

Edit Execute

largest.asm smallest.asm

```
1 .data
2 message: .asciiz " the greatest number "
3 mg1: .asciiz "Enter first number: "
4 mg2: .asciiz "Enter second number: "
5 mg3: .asciiz "Enter third number: "
6
7 .text
8 main:
9 li $v0, 4
10 la $a0, mg1
11 syscall
12
13 li $v0, 5
14 syscall
15 move $s0, $v0 #first number in s0
16
17 li $v0, 4
18 la $a0, mg2
19 syscall
20
21 li $v0, 5
22 syscall
```

Line: 1 Column: 1 ☒ Show Line Numbers

Mars Messages Run I/O

Clear

Registers		Coproc 1	Coproc 0
Name	Number		Value
\$zero	0		0
\$at	1		0
\$v0	2		0
\$v1	3		0
\$a0	4		0
\$a1	5		0
\$a2	6		0
\$a3	7		0
\$t0	8		0
\$t1	9		0
\$t2	10		0
\$t3	11		0
\$t4	12		0
\$t5	13		0
\$t6	14		0
\$t7	15		0
\$s0	16		0
\$s1	17		0
\$s2	18		0
\$s3	19		0
\$s4	20		0
\$s5	21		0
\$s6	22		0
\$s7	23		0
\$s8	24		0
\$s9	25		0
\$k0	26		0
\$k1	27		0
\$gp	28		268468224
\$sp	29		2147479548
\$fp	30		0
\$ra	31		0

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Run speed at max (no interaction)

Mars Messages Run I/O

Clear

```
Enter first number: 10
Enter second number: 2
Enter third number: 17
17 the greatest number
-- program is finished running --
```

Registers		Coproc 1	Coproc 0
Name	Number		Value
\$zero	0		0
\$at	1		268500992
\$v0	2		10
\$v1	3		0
\$a0	4		268500992
\$a1	5		0
\$a2	6		0
\$a3	7		0
\$t0	8		0
\$t1	9		0
\$t2	10		0
\$t3	11		0
\$t4	12		0
\$t5	13		0
\$t6	14		0
\$t7	15		0
\$s0	16		10
\$s1	17		2
\$s2	18		17
\$s3	19		0
\$s4	20		0
\$s5	21		0
\$s6	22		0
\$s7	23		0
\$s8	24		0
\$s9	25		0
\$k0	26		0
\$k1	27		0
\$gp	28		268468224
\$sp	29		2147479548
\$fp	30		0
\$ra	31		0

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Ex2:

C:\Users\bassa\OneDrive\المستندات\MyMips\smallest.asm - MARS 4.5

File Edit Run Settings Tools Help

Run speed at max (no interaction)

Edit Execute

largest.asm smallest.asm

```
1 .data
2 message: .asciiz " the smallest number "
3 mg1: .asciiz "Enter first number: "
4 mg2: .asciiz "Enter second number: "
5 mg3: .asciiz "Enter third number: "
6
7 .text
8 main:
9 li $v0,4
10 la $a0,mg1
11 syscall
12
13 li $v0,5
14 syscall
15 move $s0,$v0 #first number in s0
16
17 li $v0,4
18 la $a0,mg2
19 syscall
20
21 li $v0,5
22 syscall
```

Line: 1 Column: 1 ☒ Show Line Numbers

Mars Messages Run I/O

Clear

Registers		Coproc 1	Coproc 0
Name	Number		Value
\$zero	0		0
\$at	1		0
\$v0	2		0
\$v1	3		0
\$a0	4		0
\$a1	5		0
\$a2	6		0
\$a3	7		0
\$t0	8		0
\$t1	9		0
\$t2	10		0
\$t3	11		0
\$t4	12		0
\$t5	13		0
\$t6	14		0
\$t7	15		0
\$s0	16		0
\$s1	17		0
\$s2	18		0
\$s3	19		0
\$s4	20		0
\$s5	21		0
\$s6	22		0
\$s7	23		0
\$s8	24		0
\$s9	25		0
\$k0	26		0
\$k1	27		0
\$gp	28		268468224
\$sp	29		2147479548
\$fp	30		0
\$ra	31		0

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File Edit Run Settings Tools Help

Run speed at max (no interaction)

Mars Messages Run I/O

Clear

```
Enter first number: 55
Enter second number: 24
Enter third number: 7
7 the smallest number
-- program is finished running --
```

Registers		Coproc 1	Coproc 0
Name	Number		Value
\$zero	0		0
\$at	1		268500992
\$v0	2		10
\$v1	3		0
\$a0	4		268500992
\$a1	5		0
\$a2	6		0
\$a3	7		0
\$t0	8		0
\$t1	9		0
\$t2	10		0
\$t3	11		0
\$t4	12		0
\$t5	13		0
\$t6	14		0
\$t7	15		0
\$s0	16		55
\$s1	17		24
\$s2	18		7
\$s3	19		0
\$s4	20		0
\$s5	21		0
\$s6	22		0
\$s7	23		0
\$s8	24		0
\$s9	25		0
\$k0	26		0
\$k1	27		0
\$gp	28		268468224
\$sp	29		2147479548
\$fp	30		0
\$ra	31		0

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