

```
star.asm
1  .data
2  str1: .asciiz "*"
3  str2: .asciiz "\n"
4  str3: .asciiz "$"
5  str4: .asciiz " "
6  .text
7  la $t0, str1
8  la $t1, str2
9  li $t2, 0
10 li $t3, 6
11 la $t6, str3
12 la $t8, str4
13
14 OuterLoop:
15
16     # PRINT NEWLINE
17 move $a0, $t1
18 li $v0, 4
19 syscall
20
21     #if (0=5)
22 beq $t2, $t3, exit
23     # $t2++ (0+1)
24 add $t2, $t2, 1
25     # $t4 = 1
26 li $t4, 1
27 b InnerLoop
28
29 InnerLoop:
30
31     #if(t4>t2)
32 bgt $t4, $t2, OuterLoop
```

```

32 bgt $t4, $t2, OuterLoop
33
34         # $t4 % 2
35 div $t7, $t4, 2
36
37         #( $t4 % 2 == 0)
38 beqz $t7, else
39
40         #PRINT " $ "
41 move $a0, $t6
42 li $v0, 4
43 syscall
44
45
46 else:
47         #PRINT " * "
48 move $a0, $t0
49 li $v0, 4
50 syscall
51
52         # $t4++ (1+1)
53 add $t4, $t4, 1
54 b InnerLoop
55
56 exit:
57 li $v0, 10
58 syscall
59

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* $ *
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