sqL

rectL

rectH

triL

triH

trapA

trapB

trapH

strInputFormat: .asciz "%s"

intInputFormat: .asciz "%s"

welcomePrint .asciz "Welcome. Please select a shape.\n"

choicePrompt

invalidChoicePrint

invalidParamPrint

invalidChoice: .asciz "Invalid choice. Type square, rectangle, triangle, or trapezoid . Or exit r\n"

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  |  | squareLPrompt |
| bl | printf |  |
|  |  | rectLPrompt |
| bl | printf |  |
|  |  | rectHPrompt |
| bl | printf |  |
|  |  | triWPrompt |
| bl | printf |  |
|  |  | triHPrompt |
|  |  |  |
|  |  | trapLPrompt |
|  |  |  |
|  |  | trapHPrompt |
|  |  |  |

.balign 4 squareLPrompt .asciz “Enter square length: \n”

.balign 4 rectLPrompt .asciz “Enter recentagle length: \n”

.balign 4 rectHPrompt .asciz “Enter recentagle height: \n”

.balign 4 triLPrompt .asciz “Enter triangle length: \n”

.balign 4 triHPrompt .asciz “Enter triangle height: \n”

.balign 4 trapAPrompt .asciz “Enter trapezoid length A: \n”

.balign 4 trapBPrompt .asciz “Enter trapezoid length B: \n”

.balign 4 trapHPrompt .asciz “Enter trapezoid height: \n”

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| .balign 4 | areaPrint | | | .asciz | | “The area is: \n” |
| .balign 4 |  | | |  | | “You overflowed\n” |
| squareLPrompt | | .asciz | “Enter square length: \n” | |

rectLPrompt .word 0

rectHPrompt .word 0

triLPrompt .word 0

triHPrompt .word 0

trapAPrompt .word 0

trapBPrompt .word 0

trapHPrompt .word 0

.balign 4 areaPrint: .asciz “The area is: \n”

**ldr r0, =choicePrompt**

**bl printf**

**@ prompt choice**

**ldr r0, =strInputFormat**

**ldr r1, =choice**

**bl scanf**

main:

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get\_input:

evaluate\_input:

zx