









```
Stackmem.c

| char f(int i) {
| char a[] = "happy tuesday!"; | Ceturn a[i] | |
| add | r2, sp, #8 |
| char s = f(4); | ldr | r3, [sp, #4] |
| add | r3, r2, r3 |
| ldrb | r3, [r3] |
| l1 |
| l2 | mov | r0, r3 |
| l4 |
| l5 |
| l6 |
| l7 |
| l8 |
| l9 |
| 20 |
| 21 |
| 22 |
| 23 |
| 24 |
| 25 |
| 26 |
| Child process 30376 In: f |
| Line: 3 | PC: 0x10418 |
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| char a[] = "happy tuesday!"; | Ceturn a[i] }
| add | r3, r2, r3 |
| ldrb | r3, [r3] |
| mov | r0, r3 |
| char f(int i) {
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Starting program: /home/linux/ieng6/cs30f/cs30f/lectures/stackmem/a.out dl-debug.c:74: No such file or directory.

dl-debug.c:74: No such file or directory. dl-debug.c:74: No such file or directory.

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Breakpoint 1, f (i=4) at stackmem.c:2 (gdb) s (gdb) x/20x \$sp $0 \times 0 0 0 0 0 0 0 0$ <u>0</u>x000000004 0x7efffae0: 0x00000000 0x61647365 0x7efffb0c 0x7efffaf0: 0×000002179 0x7efffb00: 0x00000000 $0 \times 0 0 0 0 0 0 0 0 0$ 0x00000000 0x76e90294 0x7efffb10: 0x76fb5000 0x7efffc64 0×000000001 0x0001043c 0x7efffb20: $0 \times 0 0 0 0 0 0 0 0$ 0x76fb9318 0x76fb9000 0x00000000 (gdb)