

|   |       |         |                                    |
|---|-------|---------|------------------------------------|
| 1 | LOAD  | [i], r0 | <i>;load the value of 'i' into</i> |
| 2 |       |         | <i>;a register from memory</i>     |
| 3 | ADD   | r0, 1   | <i>;increment the value</i>        |
| 4 |       |         | <i>;in the register</i>            |
| 5 | STORE | r0, [i] | <i>;write the updated</i>          |
| 6 |       |         | <i>;value back to memory</i>       |