Link Register

```c
uint64_t increment(uint64_t inc) {
   return inc + 1;
}

uint64_t main() {
   uint64_t a;

   a = 0
   a = increment(a);

   return a;
}
```

The next **instruction** that is linked is the assignment into a!

Operating System Support

```
ecall
```

- This is not a standard machine instruction, but rather a **programmable instruction** that allows you to request services from the <u>operating system</u>. Also known as <u>system call</u>.

- The arguments that specify what action we need the OS to take are provided in `$a7`.

- Selfies supports <u>these</u> ecalls: `read`, `write`, `open`, `malloc`, and `exit`.

- The implementation of each of these ecalls is in <u>handleSystemCall()</u>.

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