## Selfie Code Structure

## in selfie this is the <u>processor</u>

header				
	<u>library</u>			
backend	<u>compiler</u>			
of compiler frontend of emulator	<u>interface</u>			
	<u>emulator</u>			
<u>hypervisor</u>				
SAT solver				
	main()			



in selfie this is the **operating system** 



## The Selfie Library

```
uint64 t leftShift(uint64 t n, uint64 t b);
uint64 t rightShift(uint64 t n, uint64 t b);
uint64 t getBits(uint64 t n, uint64 t i, uint64 t b);
uint64 t getLowWord(uint64 t n);
uint64 t getHighWord(uint64 t n);
uint64_t abs(uint64_t n);
uint64 t signedLessThan(uint64 t a, uint64 t b);
uint64 t signedDivision(uint64 t a, uint64 t b);
uint64 t isSignedInteger(uint64 t n, uint64 t b);
uint64 t signExtend(uint64 t n, uint64 t b);
uint64_t signShrink(uint64_t n, uint64_t b);
uint64 t loadCharacter(uint64 t* s, uint64 t i);
uint64 t* storeCharacter(uint64 t* s, uint64 t i, uint64 t c);
uint64 t stringLength(uint64 t* s);
         stringReverse(uint64 t* s);
uint64 t stringCompare(uint64 t* s, uint64 t* t);
uint64 t atoi(uint64 t* s);
uint64 t* itoa(uint64_t n, uint64_t* s, uint64_t b, uint64_t a, uint64_t p);
```

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