

8-2

$$E[M] \mapsto_v E[V]$$

$$\text{iff } \langle M, E \rangle \mapsto_{\text{succ}} \langle V, E \rangle$$

$$\text{iff } \langle M, \text{rep}^{-1}(E) \rangle \mapsto_{\text{ck}} \langle V, \text{rep}^{-1}(E) \rangle$$

What does K stand for? Stack

K represents the context and is stored backwards for efficiently

context is our future work

access to the top and we don't care about rest (we only look at the top)

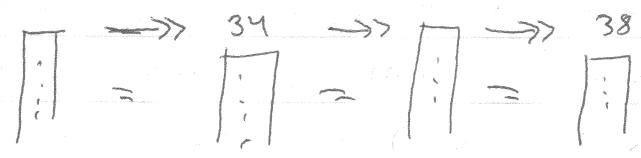
function call stack

stack

records functions that haven't returned yet (your future)

```
int f() { ...
```

```
30: g()
34: h()
38: ret x; }
```



```
int f(int x) {
```

2	int y = 7;	s0	7	7	17
4	g();	s1	10	10	↓
6	return x+y;	s2	12	12	
	}	s3	↓	↓	
8:	f(10);			"x+y" => "s0 + s1"	
12:				movq rax, rsp(-8)	
				addq rax, rsp(-16)	
				ret	

(Continuation)

The stack is exactly the K -thing! $K = \text{Continuation}$

