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#### 8.1 OrdinaryGet (O, P, Receiver) #

When the abstract operation OrdinaryGet is called with Object O, property key P, a
ECMAScript language value Receiver, the following steps are taken:

- Assert: IsPropertyKey(P) is true.
- Let desc be ? O.[[GetOwnProperty]](P).
- 3. If desc is undefined, then
  - a. Let parent be ? O.[[GetPrototypeOf]]().
  - b. If parent is null, return undefined.
  - c. Return ? parent.[[Get]](P, Receiver).
- If IsDataDescriptor(desc) is true, return desc.[[Value]].
- 5. Assert: IsAccessorDescriptor(desc) is true.
- Let getter be desc.[[Get]].
- 7. If getter is undefined, return undefined.
- 8. Return ? Call(getter, Receiver).

```
function add(obj) {
  return 1 + obj.x;
```

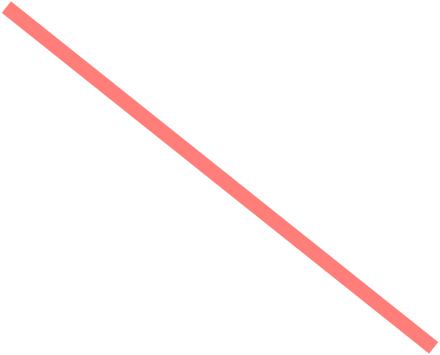
# $add({x: 42});$

## $add(\{x: 7\});$



### Cache of shortcuts

{x: int} offset 1









AST



Baseline Compiler



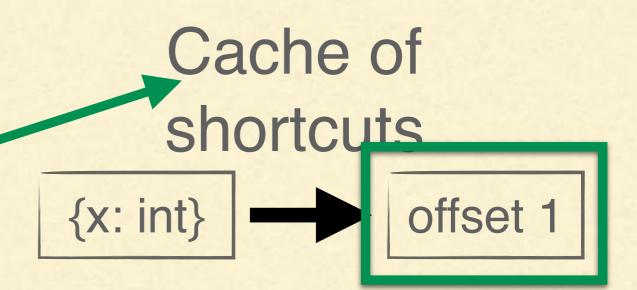
Machine code

Optimizing Compiler



Optimized Machine Code

```
function add(obj) {
  return 1 + obj.x;
}
```



 $add({x: 42});$ 

 $add(\{x: 7\});$ 

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- 1. Assert: IsProperty. (P) is true.
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  - c. Return ? parent.[[Get]](P, Receiver).
- If IsDataDescriptor(desc) is true, return desc., [alue]].
- 5. Assert: IsAccessorDescriptor(desc) is true.
- Let getter be desc.[[Get]].
- 7. If getter is undefined, return undefined.
- 8. Return ? Call(getter, Receiver).

