


```
class Cage {  
  
    int size;           // length of cage in inches  
    _____ resident; // any animal can live in cage  
  
    Cage (int size, _____ resident){  
        this.size = size;  
        this.resident = resident;  
    }  
  
    // determine whether the animal will fit in this cage  
    boolean checkResidentFits(){  
        return this.resident.lengthBelow(this.size);  
    }  
}
```

```
; an Animal is one of  
;   Dillo  
;   Boa
```

```
; length-below?: Animal Natural → Boolean  
; produces true if the animal's length is  
; less than the given length
```

```
(define (length-below? ani len)  
  (cond [(dillo? ani)  
        (< (dillo-length ani) len)]  
        [(boa? ani)  
        (< (boa-length ani) len)]))
```

<https://pollev.com/cs2102>

