```
2
 3
   (@htdd Movie)
 4
    (define-struct movie (title budget year))
    ;; Movie is (make-movie String Natural Natural)
5
    ;; interp. a movie with title, budget in USD, and year released
 6
7
    (define M1 (make-movie "Titanic" 200000000 1997))
    (define M2 (make-movie "Avatar" 237000000 2009))
8
    (define M3 (make-movie "The Avengers" 220000000 2012))
9
10
11
    (@dd-template-rules compound) ;3 fields
12
13
    (define (fn-for-movie m)
14
      (... (movie-title m) ;String
15
           (movie-budget m)
                             ;Natural
16
           (movie-year m))) ; Natural
17
18
19
    (@htdf most-recent-title)
20
    (@signature Movie Movie -> String)
    ;; produce title of most recently released movie
21
22
    (check-expect (most-recent-title M1 M2) "Avatar")
23
    (check-expect (most-recent-title M2 M1) "Avatar")
    (check-expect (most-recent-title M3 M2) "The Avengers")
24
25
26
    (@template-origin Movie)
27
28
    (@template
29
     (define (most-recent-title m1 m2)
30
       (... (movie-title m1)
31
            (movie-budget m1)
32
            (movie-year m1)
33
            (movie-title m2)
34
            (movie-budget m2)
35
            (movie-year m2))))
36
37
    (define (most-recent-title m1 m2)
38
      (if (>= (movie-year m1) (movie-year m2))
39
          (movie-title m1)
40
          (movie-title m2)))
41
42
43
   # |
44
45
    [A] M1 and M2 are evaluated to operands before the function call in
45
    line 22.
46
47
    [B] The parameters of the function call expression in line 22 are M1
47
    and M2.
48
49
    [C] The test thoroughness is complete for most-recent-title.
50
51
    [D] The purpose fully describes the behaviour of most-recent-title.
52
53
    [E] All steps from the HTDF recipe are present.
54
```

(require spd/tags)

1

[F] The function body spans from lines 37 to 40.[G] The false answer in the function body of most-recent-title contains a call to a selector.[H] Movie is an itemization with 3 atomic non-distinct fields.[I] Line 4 contains the structure definition of Movie.

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