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PATTERN MATCHING EXHAUSTIVITY (10/10 points)

We have seen in the course the example of non exhaustive pattern matching given below. Write the code for the missing cases.

THE GIVEN PRELUDE

```
type color = Black | Gray | White ;;
```

YOUR OCAML ENVIRONMENT

```
1 let lighter c1 c2 =  
2   match (c1, c2) with  
3   | (Black, Black) -> false  
4   | (White, White) -> false  
5   | (Gray, Gray) -> false  
6   | (Black, _) -> true  
7   | (_, White) -> true  
8   | (White, Gray) -> false  
9   | (Gray, Black) -> false  
10  | (White, Black) -> false  
11 ;;  
12
```

Evaluate >

Switch >>

Typecheck

Reset Templ

Full-screen |

Check & Sa

Exercise complete (click for details)**10 pts**

Found lighter with compatible type.

Computing lighter White Black

Correct value false

1 pt

Computing lighter Black Gray

Correct value true

1 pt

Computing lighter Gray Black

Correct value false

1 pt

Computing lighter Gray White

Correct value true

1 pt

Computing lighter White White

Correct value false

1 pt

Computing lighter Gray White

Correct value true

1 pt

Computing lighter Black Black

Correct value false

1 pt

Computing lighter White Black

Correct value false

1 pt

Computing lighter White Gray

Correct value false

1 pt

Computing lighter White Gray

Correct value false

1 pt



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