moodle-cs-utcn Ouestion 10 Select the correct option for each code snippet: Partially correct \max fallback l = case 1 of Mark 0.33 out of 1.00 [] -> fallback \$ X Can crash at runtime x::xs -> if x > fallback then max x xs else max fallback xs ▼ Flag question $\max 1 = case 1 of$ [x] -> x Fails to compile x::xs -> let m = max fallback xs in if x > m then x else m \max fallback 1 = case 1 of [] -> fallback Compiles and never crashes \$ x::xs -> let m = max fallback xs in if x > m then x else m Question 11 The inferred signature of the following function is: Correct add2 ax ay bx by = $\{x = ax + bx, y = ay + by\}$ Mark 1.00 out of 1.00 a number1 -> number -> number1 -> number -> { x : number1, y : number } ▼ Flag question ○ b Int -> Int -> Int -> Int-> { x : Int, y : Int } Oc. Int -> Int -> Int -> Int-> { a | x : Int, y : Int } d number -> number -> number -> number -> { x : number, y : number } e_ number1 -> number -> number1 -> number -> { a | x : number1, y : number } Question 12 Given the following type definitions:











Partially correct

Mark 0.33 out of





something lx ly =















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Question 14
                       Given the following definitions:
Partially correct
                       something lx ly =
Mark 0.33 out of
1.00
                            case (lx, ly) of
Flag question
                                ([], _) -> ly
                                (_, []) -> 1x
                                (x::xs, y::ys) -> if x > y then x::something xs ly else y::something lx ys
                       mystery 1 =
                            case 1 of
                                [] -> []
                                [x] \rightarrow [x]
                                _ ->
                                     let
                                          h = (List.length 1) // 2
                                          a = (mystery (List.drop h 1))
                                          b = (mystery (List.take h 1))
                                      in
                                         something a b
                      mystery [10, 5, 2, 8, 4, 15] evaluates to [ 15 \diamondsuit \checkmark , 4 \diamondsuit \times , 8 \diamondsuit \checkmark , 2 \diamondsuit \times , 5 \diamondsuit \times , 10 \diamondsuit \times ]
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