Introduction to Tuples

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A tuple is a structured type that allows you to store different type values $t_1, t_2, ..., t_n$ on a single value of type $(t_1, t_2, ..., t_n)$

- The number of fields is fixed.
- The fields are of heterogeneous type.

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```
(3, 'z', False) :: (Int, Char, Bool)
(6, 9) :: (Int, Int)
(True, (6, 9)) :: (Bool, (Int, Int))
mostFrequentCharacter :: String -> (Char, Int)
mostFrequentCharacter "AVATAR" ( ('A', 3)
timeDecomposition :: Int -> (Int, Int, Int) -- hours, minutes, seconds
timeDecomposition seconds = (h, m, s)
    where
        h = div seconds 3600
        m = div \pmod{seconds} 3600) 60
        s = mod seconds 60
```