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олимпиады по программированию на Физтехе

Раздел «Парадигмы» . SortHaskell :

Сортировка qsort и msort на Haskell

```
module Sort where

mergeSort [] = []
mergeSort [x] = [x]

mergeSort xs | size > 0 =
    merge (mergeSort front) (mergeSort back)
        where
            size = length xs `div` 2
            front = take size xs
            back = drop size xs

merge :: Ord a => [a] -> [a] -> [a]
merge (x : xs) (y : ys)
    | x <= y   = x : merge xs (y : ys)
    | x > y    = y : merge (x : xs) ys
merge [] ys = ys
merge xs [] = xs




qsort []     = []
qsort (x:xs) = qsort elts_lt_x ++ [x] ++ qsort elts_greq_x
                where
                    elts_lt_x   = [y | y <- xs, y < x]
                    elts_greq_x = [y | y <- xs, y >= x]
```

-- ArtemVoroztsov - 22 Apr 2005

Поиск

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