```
insert :: Ord a \Rightarrow a \rightarrow [a] \rightarrow [a]
1
      insert x [] = [x]
      insert x (y:ys) = if x \le y then x: (y:ys) else y: insert x ys
      isort :: [Int] -> [Int]
5
      isort [] = []
      isort (x:xs) = insert (x) (isort xs)
      qsort :: [Int] -> [Int]
9
      qsort [] = []
10
      qsort (x:xs) = qsort [y | y \leftarrow xs, y \leftarrow x]
11
                    ++ [x]
12
                    ++ qsort [y \mid y \leftarrow xs, y > x]
13
14
      merge :: [Int] -> [Int] -> [Int]
15
      merge [] ys = ys
16
      merge xs [] = xs
17
      merge (x:xs) (y:ys) = if x \le y then x: (merge (xs) (y:ys))
18
                            else y : (merge (x:xs) ys)
19
20
      mSort :: [Int] -> [Int]
21
      mSort [] = []
22
      mSort[x] = [x]
      mSort xs = merge (mSort left) (mSort right)
24
                 where (left, right) = splitAt ((length xs) 'div' 2) (xs)
25
       other stuff
        N = a 'div' length xs
             where
                  a = 10
                   xs = [1,2,3,4,5]
grid :: Int -> Int -> [(Int, Int)]
```