

[\[Browse source program\]](#) [\[Execute source program\]](#)

```
sort _ []      = []
sort f (x:xs) = insert f x (sort f xs)
insert _ x [] = [x]
insert f x (y:ys) | f x y      = x:y:ys
                  | otherwise = y : insert f x ys

-- sort (<=) [3,5,1,2,6,7,8,9] => [1,2,3,5,6,7,8,9]
-- sort (>) [3,5,1,2,6,7,8,9] => [9,8,7,6,5,3,2,1]
```