15.4.4.10 Array.prototype.sort (comparefn)

... 

If comparefn is supplied and is not a consistent comparison function for the elements of this array (see below), then the behavior is implementation-defined. Let len be ToUint32(this.length). If there exist integers i and j and an object P such that all of the conditions below are satisfied, then the behavior is also implementation-defined:

- 0 i < len
- 0 j < len
- this does not have a property with name ToString(i)
- P is obtained by following one or more [[prototype]] links starting at this
- P has a property with name ToString(j).

Otherwise the following steps are taken:

...