

```
KnotSort@1_List := KnotSort@1 = Sort[1,  
  If[Length@#1 == Length@#2, If[#1 === Abs /@ #1, #2 == != Abs /@ #2 ∨ Order[#1, #2] == 1,  
    #2 == != Abs /@ #2 ∧ Order[#1, #2] == 1], Length@#1 < Length@#2] &];
```