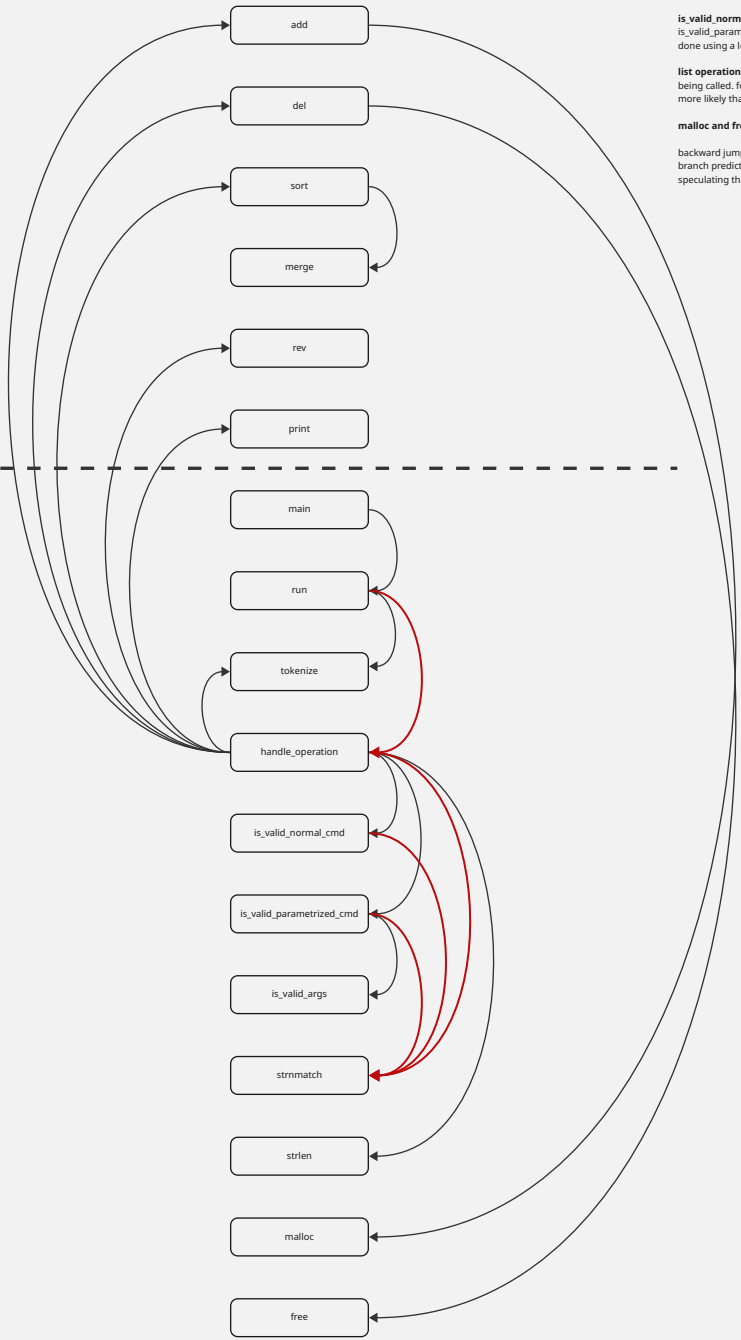


# NAIVE APPROACH



**strnmatch** is the hot path, it is called multiple times by multiple functions, therefore for better instruction cache locality it should be moved in that cluster.

**tokenize** is moved back so that run and handle\_operation are closer together.

**is\_valid\_normal\_cmd** takes precedence over is\_valid\_parametrized\_cmd as the comparison is done using a logical OR (|), which short circuits.

**list operations** are ordered based on likelihood of being called, for example ADD is assumed to be more likely than REV

**malloc and free** are "inlined"

backward jumps are not really a problem, in fact, the branch predictor usually predicts them as taken, speculating that they're branches.

# CACHE FRIENDLY

