```
KnotGraph@k MD :=
      KnotGraph@k = \{Join@@Table[Array[\{v, \#-1\} \leftrightarrow \{v, Mod[\#, 4]\} \&, 4] \bigcup \{\{v, 0\} \leftrightarrow \{v, Mod[\#, 4]\} \&, 4\}\} \cup \{\{v, 0\} \leftrightarrow \{v, Mod, \#\}\}\} \}
                                                                                                                                     \{Ordering[List@@Abs/@k][v], 1\}, \{v, 2\} \leftrightarrow \{Ordering[List@@Abs/@k][Mod[], 1\}, \{v, 2\}, 
                                                                                                                                                                             v-1, Length@k, 1]], 3}}, {v, Length@k}] // Graph);
```