Here is the programe for calculating K index (including Kbu, Ktd, Kdir, Kindir) in R. The input format is as follows. First, each node has an ID. If there is a link from fish to bird , then the input format must be:

fish bird 1

(1 indicates a trophic link from fish to bird, meaning bird eats fish).

The first line of the code tells R where your input file is, it should be a textfile.

So, just copy and paste the codes into R, then it should work. The result is recorded in a dataframe called resu. So if you type resu and press enter, then it should give you the result.

Resu has a format like this:

nodeID, k, kbu, ktd, kdir, kindir