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For a given knot diagram D one can traverse the knot diagram and count the number of loops created by the traversal. The number of loops created depends on the starting point in the diagram D and on the traversal direction. Looking at the minimum or maximum number of loops over all starting points and directions one can define two positive integers as loop numbers of the diagram D . In this talk we identify conditions under which these loop numbers become knot invariants. In particular we study the question when these numbers are invariant under flypes in the diagram D . (Received January 12, 2017)