Exercise sheet 3
COMP6741: Parameterized and Exact Computation

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Exercise 1. Recall that an *independent set* of a graph $G = (V, E)$ is a subset of pairwise non-adjacent vertices.

INDEPENDENT SET
Input:	Graph G, integer k
Question:	Does G have an independent set of size k?

- Show that INDEPENDENT SET is FPT for parameter q, where $q = k + \Delta(G)$ and $\Delta(G)$ denotes the maximum degree of G.