Abstract: The purpose of this talk is to discuss two related problems about modular forms. The first is a conjecture stated by Gouvêa and Mazur in the early 1990's. Their conjecture aims to predict a specific local constancy result for the multiplicity of (the $p$-adic norm of) a certain Hecke eigenvalue appearing in spaces of modular forms, as the weight varies. (Caveat: their conjecture was disproven!) Their conjecture was an attempt to nail down the as-of-then undiscovered general theory of $p$-adic modular forms. Later, Coleman proved families of $p$-adic modular forms exist as $q$-expansions converging on $p$-adic discs. The second problem, a variation of the Gouvêa-Mazur conjecture, is to ask for the radius of convergence of a given family. Our discussion will highlight new results on this second problem, but we will start by making precise both problems.