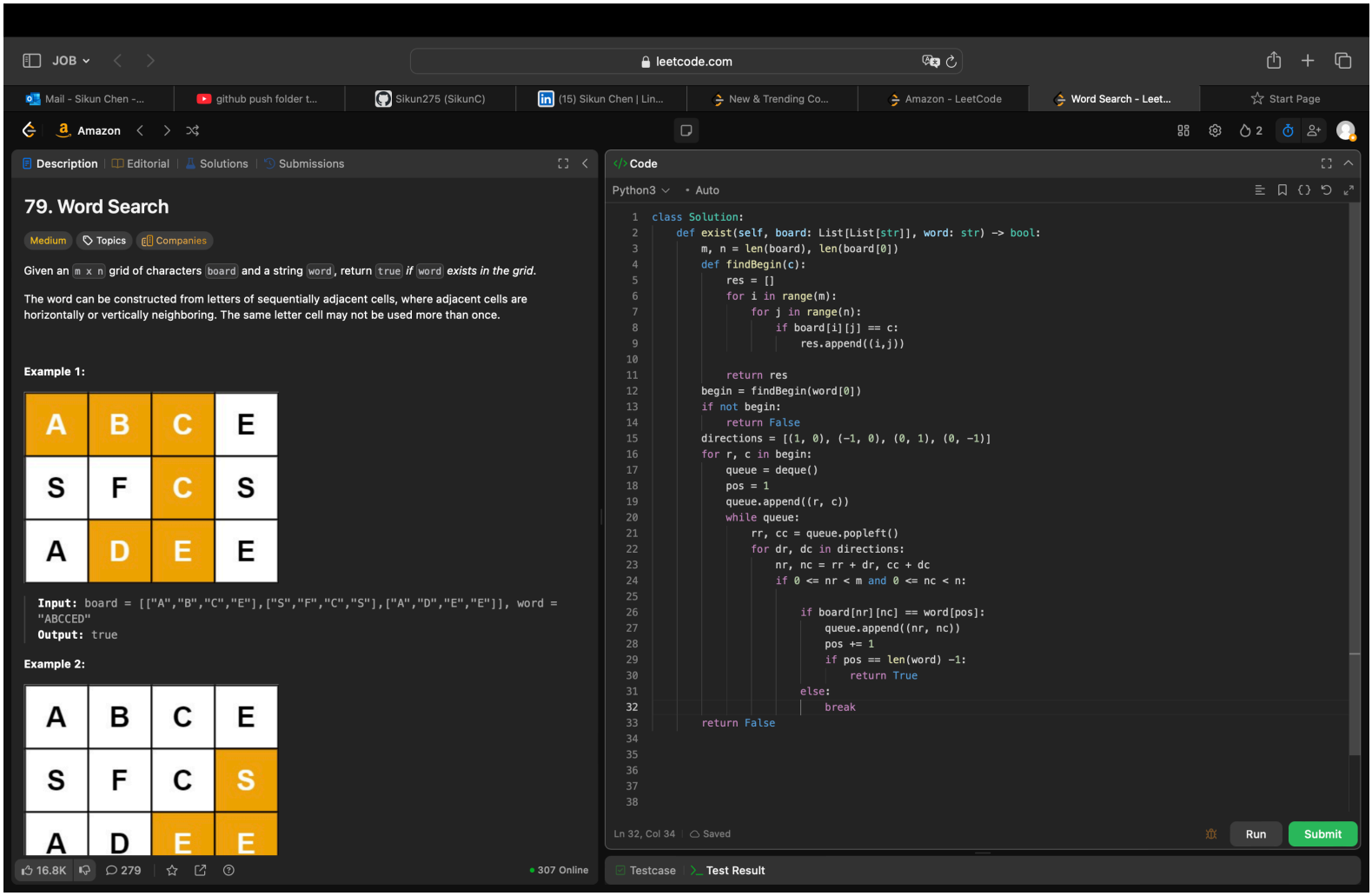
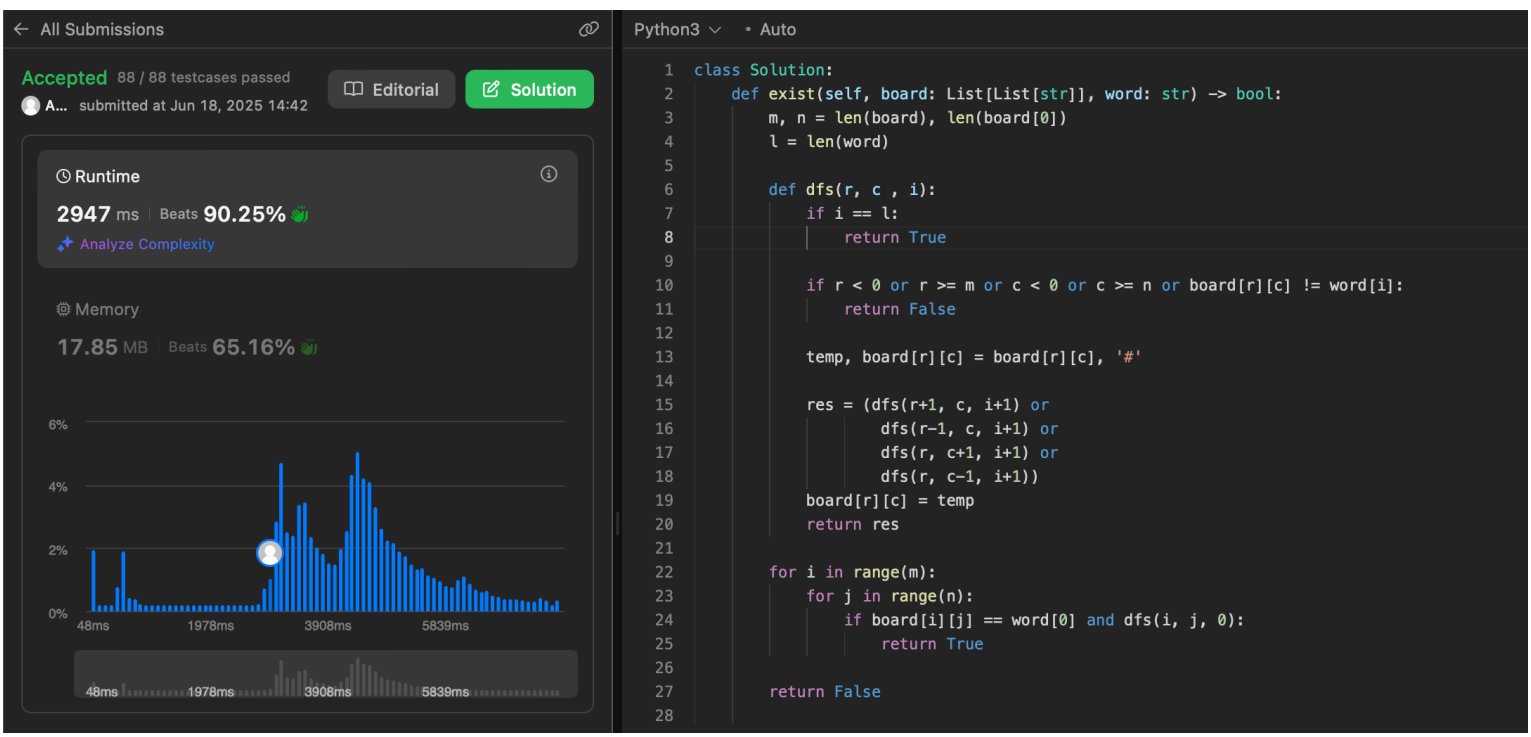


first version is not correct



the way to handle path, is not backtrack, but use or to make sure at least one correct answer