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Title: When every irreducible character is a constituent of a primitive permutation character

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Wall's theorem claims that a finite solvable group G has at most $|G| - 1$ maximal subgroups. A recent proof of the theorem uses a partial correspondence between maximal subgroups and irreducible characters. In this note, we characterise the extreme case of that proof: when is it true that for every irreducible character χ there exists a maximal subgroup $M < G$ such that χ_M has a principal constituent?

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