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Title: Conjugacy class sizes in finite groups

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Abstract: Let G be a finite group. One of the key tools for studying G is the set $cs(G)$, whose elements are the sizes of the conjugacy classes of G . Of course $cs(G)$ is a finite set of positive integers including 1. There are several questions arising in this context; for example, if $cs(G)$ is known, what can be said about the structure of G ? In order to study these questions, it is useful to introduce two kind of graphs that are attached to $cs(G)$: the prime graph and the common divisor graph. In this talk we will outline the major results about these graphs in particular concerning completeness and regularity.