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Nic Koban and **Peter Wong*** (pwong@bates.edu), Department of Mathematics, Bates College, Lewiston, ME 04240. *Ω^n invariants and twisted conjugacy classes.*

A group G is said to have property R_∞ if for every automorphism $\varphi \in \text{Aut}(G)$, there are an infinite number of φ -twisted conjugacy classes. The interest in R_∞ originates from topological fixed point theory. We show that if the Ω^n invariant of G is finite and nonempty then it consists of one or two points. In the case of a singleton, G has property R_∞ . If Ω^n consists of two points, then there is an index 2 subgroup Γ in $\text{Aut}(G)$ such that there are an infinite number of φ -twisted conjugacy classes for every $\varphi \in \Gamma$. (Received September 22, 2011)