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Following [1], a module M is called weakly N -injective if for each homomorphism f from N to the injective hull $E(M)$ of M , there exists a submodule X of $E(M)$ such that $f(N) \subset X \cong M$. If M is N -injective, then it is weakly N -injective. In [2], López-Permouh and Simental introduced the injectivity profile of a ring to be the collection of all domains of injectivity of modules over said ring. In this work, we deal with the investigation of weak-injectivity profile.

References: [1] S.K. Jain and S.R. López-Permouh, Rings whose cyclics are essentially embeddable in projective modules, J. Algebra, 128, 257-269, 1990. [2] S.R. López-Permouh and J.E. Simental, Characterizing rings in terms of the extent of the injectivity and projectivity of their modules, J. Algebra, 362, 56-69, 2012. (Received December 06, 2017)