Let R be von Neumann regular, and  $P_R$  be f.g. projective of rank 1. Since R is a semihereditary ring. Albrecht's Theorem implies that  $P = P_1 \oplus ... \oplus P_n$  where each  $P_i$  is isomorphic to a f.g. ideal of R. But then  $P_i \cong e_i R$  for suitable idempotents  $e_i \in R$ , so P is a direct sum of cyclic modules. But f.g. projective module  $P_R$  of rank 1 is a direct sum of cyclic modules iff P is isomorphic R, so we have  $P_i(R) = \{I\}$ .