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A matrix  $A$  is power-positive if some positive integer power of  $A$  is entrywise positive. A matrix  $A$  is eventually positive if  $A^k$  is entrywise positive for all sufficiently large integers  $k$ . A characterization of sign patterns that require power-positivity is presented. It is also shown that a sign pattern  $\mathcal{A}$  allows power-positivity if and only if  $\mathcal{A}$  or  $-\mathcal{A}$  allows eventual positivity. (Received February 11, 2010)