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Let  $m$  be the ideal consisting of all nonunits. Since  $0 \in m, 0$  is a nonunit, so  $1 \notin m$ , and it follows that the ideal  $m$  is proper. Now, if  $b$  is any proper ideal of  $A$  then all elements of  $b$  are nonunits, so  $b \subseteq m$ . Thus all proper ideals are contained in  $m$ , so  $m$  is the unique maximal ideal of  $A$ .

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