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THE RANGE OF A MEASURABLE FUNCTION

Any subset of \mathbb{R} can be a $f(\mathbb{R})$ for some measurable function $f : \mathbb{R} \rightarrow \mathbb{R}$, if we require f to be 1-1 then this set must contain a perfect set. We also state some remarks and questions about whether there is a function measurable/nonmeasurable/1-1 that maps every perfect set onto a non measure zero set.