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free hull

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Entry type Definition Classification msc 20M05 Classification msc 20M10 Let A be an arbitrary set, let A^* be the free monoid on A, and let X be a subset of A^* . It follows from the characterization of free submonoids that the intersection M of all the free submonoids of A^* that contain X is a free submonoid of A^* . The minimal generating set H of M is called the *free hull* of X.