Definition: A function $f:D\to C$ is **onto** (or surjective) means for every b in the codomain, there is an element a in the domain with f(a)=b. Formally, $f:D\to C$ is onto means . **Definition**: For sets A,B, we say that **the cardinality of** A **is no smaller than the cardinality of** B, and write $|A|\geq |B|$, to mean there is an onto function with domain A and codomain B.