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# progressive function

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**Definition**  A function $f \in L^2(\mathbb{R})$ is called *progressive* iff its Fourier transform is supported by positive frequencies only:

$$\operatorname{supp} \hat{f} \subseteq \mathbb{R}_+.$$

It is called *regressive* iff the time reversed function $f(-t)$ is progressive, or equivalently, if

$$\operatorname{supp} \hat{f} \subseteq \mathbb{R}_-.$$