Table 1: Basic tactics

what do you want to do?	**tactics**
directly provide a proof term `M`	`exact M`
provide a proof term `M` with wildcards `_` for subgoals	`refine M`
use an assumption	`exact`, `assumption`, `eassumption`
replace `M` in the goal by a variable and generalize over it	`generalize M`
add the type of `M` to the context	`pose proof M as H`; `generalize M` and then `intro H`
prove `A` and introduce it to the context	`assert (H: A)`
change the goal to `G`	`enough G`
unfold the definition of `c` (in the goal, in `H`, everywhere)	`unfold c`; `unfold c in H`; `unfold c in *`
fold back the definition of `c`	`fold c`
move hypothesis `H` back to the goal ("reverting" `intro H`)	`revert H`
remove hypothesis `H`	`clear H`
find a contradiction in the context	`contradiction`
simple Prolog-like automation	`auto`, `eauto`
automatically solve an "easy" goal	`easy`, `trivial`
automatically solve a linear arithmetic goal	`lia` (needs `Require Import Psatz`)
automatically prove a propositional formula	`tauto`
automatically prove a first-order formula	`firstorder`
combine `tauto` with `auto`	`intuition`
induction on `t`	`induction t as [ ... ]`
reasoning by cases on an object `t`	`destruct t as [ ... ]`
reasoning by cases on a proof `H` of an inductive predicate	`inversion H as [ ... ]`; `inversion_clear H as [ ... ]`
replace `t` with `x` and add `x = t` to the context	`remember t as x`
give up on the goal	`admit`