Natural Numbers, or the best way to enumerate anything

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Contents

'utils require import

• Required module: utils

```
'Nat_context [ { Type '.Nat } { .Nat '.zero } { .Nat 'n -> .Nat ? '.succ } ] def 'Nat_Nat_context { .Nat } prods "Natural" defconstr 'zero Nat_context { .zero } funs "0" defconstr Nat 'n -> 'succ Nat_context { .succ ( n ( .Nat .zero .succ ) ) } funs "S n" defconstr ! The Nat type is defined to Natural . \lambda(n : Natural).\mu(n) has type \forall(n : Natural) (Nat^P : Natural \to Set_1), Nat^P0 \to (\forall(n0 : Natural), Nat^Pn0 \to Nat^Pn1. \lambda(n : Natural).\Deltan has type Natural \to Natural.
```