

```

Gal-
lina
[cap-
tion
!
mon=!day!]
??
duc-
tive
day:
Type
:=
mon-
day
|
tues-
day
|
wednes-
day
|
thurs-
day
|
fri-
day
|
sat-
ur-
day
|
sun-
day.
[cap-
tion
!
nextweekday!]Definitionnextweekday(d :
day)day :=
matchdwith|monday =>
tuesday|tuesday =>
wednesday|wednesday =>
thursday|thursday =>
friday|friday =>
monday|saturday =>
monday|sunday =>
mondayend.
type
in-
ter-
fer-
ence
weekdayfriday).!Coqoutput :
! =
monday :
day!or
!compute(nextweekday(nextweekdaysaturday)).!Coqoutput :
! =
tuesday :
day!
RecordanexpectedbehaviourasaCog-!Example!andverifytheassertion :
ThesecondweekdayafterSaturdayisTuesday.Example.testnextweekday :
(nextweekday(nextweekday(saturday)) =
tuesday)proof.simpl.reflexivity.Qed.Thedetailsoftheimplementationarenotimportantrightnow.Wearegoingtcomebac
?
.v-files

??
??
[cap-
tion
=
!bit!
and
!nibbel!]
In-
duc-
tive
bit:
Type
:=
(*a
bit*)
|B0
|B1.
Inductive
nib-
ble:

```