

```

Gallina
[[[cop-
tion=!day!]
]]
inductive
day:
Type
:=
mon-
day
|
tues-
day
|
wednes-
day
|
thurs-
day
|
fri-
day
|
sat-
ur-
day
|
sun-
day.
[cap-
tion
!
next_weekday!] Definition next_weekday(d :
day) day :=
matchdwith|monday =>
tuesday|tuesday =>
wednesday|wednesday =>
thursday|thursday =>
friday|friday =>
monday|saturday =>
monday|sunday =>
mondayend.
type
in-
ter-
ference
weekday friday).!Coqoutput :
!=
monday :
day!or
!compute(next_weekday(next_weekdaysaturday)).!Coqoutput :
!=
tuesday :
day!
RecordanexpectedbehaviourasaCog—!Example!andverifytheassertion :
ThesecondweekdayafterSaturdayisTuesday.[caption =
!text_next_weekday!,label =
lab :
lst :
next_weekday] Example.test_next_weekday :
(next_weekday(next_weekday(saturday))) =
tuesdayProof.simpl.reflexivity.Qed.Thedetailsoftheimplementationarenotimportantrightnow.Wearegoingtocomeback
??
B
??
n
d
.v-files

??
???
??
[cap-
tion
=
!bit!
and
!nibbel!]
In-
duc-
tive
bit:
Type

```