DOCUMENTATION

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2.  -- Uwe R. Zimmer, Australia 2015

3.  --

4.

5.  package body Id_DispenserTo API docTo spec is

6.

7.    protected Dispenser is

8.

9.      procedure Draw_Id (Id : out ElementTo API docTo spec);

10.

11.   private

12.

13.      Next_Id      : ElementTo API docTo spec := ElementTo API docTo spec'First;

14.      IDs_exhausted : Boolean := False;

15.

16.   end Dispenser;

17.

18.   protected body Dispenser is

19.

20.      procedure Draw_Id (Id : out ElementTo API docTo spec) is

21.

22.      begin

23.         if IDs_exhausted then

24.            raise Out_Of_IdsTo API docTo spec;

25.         else

26.            Id := Next_Id;
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27.            if Next_Id = ElementTo API docTo spec&apos;Last then

28.                IDs_exhausted := True;

29.            else

30.                Next_Id := ElementTo API docTo spec&apos;Succ (Next_Id);

31.            end if;

32.        end if;

33.     end Draw_IdTo specTo body;

34.

35.    end Dispenser;

36.

37.    function Draw_IdTo API docTo spec return ElementTo API docTo spec is

38.

39.      Unique_Id : ElementTo API docTo spec := ElementTo API docTo
   spec&apos;Invalid_Value;

40.

41.    begin

42.        Dispenser.Draw_IdTo specTo body (Id => Unique_Id);

43.        return Unique_Id;

44.    end Draw_IdTo API docTo specTo body;

45.

46.end Id_DispenserTo API docTo specTo body;
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