b) 1) 1, 2, 13
   2) 1, 2, 3, 4, 5, 12, 2, ...
   3) 1, 2, 3, 4, 6, 7, 12, 2, ...
   4) 1, 2, 3, 4, 6, 8, 12, 2, ...
   5) 1, 2, 3, 4, 6, 10, 12, 2, ...
   6) 1, 2, 3, 4, 6, 11, 12, 2, ...
   7) 1, 2, 3, 4, 6, 12, 2, ...
   8) 1, 2, 3, 4, 6, 12, 2, ...

1) while
2) if
3) T
4) F
5) switch
6) 7
7) 8
8) 9
9) 10
10) 11
11) 12
12) 13

1) url = null string
   2) url[i] = "0.01"  (some control char)
   3) url[i] = ">"
   4) url[i] = "<"
   5) url[i] = "#"
   6) url[i] = "%"
   7) url[i] = "\"
   8) url[i] = "h" (or some other legal character)
Assignment of nodes to code example.

is_illegal(input String url, output Boolean valid)
begin
  Integer i;
  Char c;
  valid = true;
  i = 1;
  loop through characters in string
  while (i <= length(url) AND valid == true) begin
    c = url[i]; get i'th character of string
    if (c >= 0 AND c <= 32) then check for control chars and space
    valid = false;
    else
      switch (c)
      case "":
        valid = false;
      case "":
        valid = false;
      case "#":
        valid = false;
      case "":
        valid = false;
      case "\":
        valid = false;
      end switch;
      end if;
  end while;
end; end of function
2)

a) start hour
   0, 23, 0

a.1) -5, 3, 45

a.2) representative values from ranges 1, 2, 3

b) -1, 0, 1, 22, 23, 24

   low boundary  high boundary
   ↓           ↓
   ↓           ↓

   one below one above
   one above one below

b.1) -1, 0, 1, 22, 23, 24

b.2) -1, 0, 1, 22, 23, 24

C)

c) examples:

C.1) all low: -1, -1, -1, -1, 0

   all high: 50, 50, 50, 90, 200

   all OK: 2, 30, 4, 30, 25

   mixed: -1, 30, 4, -1, 25

   (some values, some low)

C.2) examples:

   0, 0, 0, 0, 2 — all on lower boundary

   23, 59, 23, 59, 39 — all on upper boundary

   24, 60, 24, 60, 100 — all on about upper boundary

   24, -1, 24, -1, 100 — mix of one above 1 one below