

Result: Set the height of a sheet

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1 ENTRANCE: call sheetMove((struct SHTCTL *ctl, struct SHEET
   *sht, int height));
2 Procedure sheetMove(struct SHTCTL *ctl, struct SHEET *sht, int
   height)
3   old  $\leftarrow$  the original height of sht;
4   if height > top sheet plus 1 then
5     | height  $\leftarrow$  top + 1;
6   else
7     | nothing to do here;
8   end
9   if height < -1 then
10    | this means to hide sht sheet, height  $\leftarrow$  -1;
11  else
12    | nothing to do here;
13  end
14  if old > height then
15    if height  $\geq$  0 then
16      for  $h \leftarrow$  old to height by 1 do
17        | increases the height of all sheets between height and old
18        | by one;
19        | modify the height of all sheets to h;
20      end
21      place the sht sheet at height;
22    else
23      if highest sheet top > old then
24        for  $h \leftarrow$  old to top by 1 do
25          | drop all sheets between old and top by one height;
26          | modify the height of all sheets to h;
27        end
28      else
29        | nothing to do here;
30      end
31      the displayed sheet is reduced by one, top  $\leftarrow$  top - 1;
32    end
33    refresh screen;
34  else
35    if old < height then
36      if old  $\geq$  0 then
37        for  $h \leftarrow$  old to height by 1 do
38          | drop all sheets between old and height by one height;
39          | modify the height of all sheets to h;
40        end
41        place the sht sheet at height;
42      else
43        for  $h \leftarrow$  top to height by 1 do
44          | increases the height of all sheets between top and
45          | height by one;
46          | modify the height of all sheets to h+1;
47        end
48        place the sht sheet at height;
49        the displayed sheet is increased by one, top  $\leftarrow$  top + 1;
50      end
51      refresh screen;
52    else
53      | nothing to do here;
54    end
55  end
56 end
```