















## Communicating Sequential Processes (CSP)

to hold up to a maximum of 10 values of type portion. Note how the guarded commands do not accept <u>producer</u> messages when the buffer is full and do not accept <u>consumer</u> messages when the buffer is empty.

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```
Communicating Sequential Processes
lineimage:(1..125) character;
i: integer; i:=1;
* [ c:character; X?c -->
       lineimage(i);+ c;
       [ i <= 124 --> i := i+1;
       []
         i = 125 --> lineprinter!lineimage; i:=1;
       ]
   1
   [ I = 1 --> skip
     []
     i>1 --> *[i <= 125 --> lineimage(i):= space; i:= i+1;]
             lineprinter!lineimage
   1
  Read a stream of characters from X and print them in
  lines of 125 characters on a lineprinter completing the
  last line with spaces if necessary.
                                                        10
```







task bound	ed-butter is
entry s	store(x : buffer);
entry 1	<pre>remove(y: buffer);</pre>
end;	
task body l	oounded-buffer is
declara	tions
begin	
loop	
sele	ct
	when head < tail + 10 =>
	accept store(x : buffer) end store;
or	
	when tail < head =>
	accept remove(y: buffer) end remove
end	select;
end loop	