CoCoA-5 - Bug #1325

Emacs UI: emacs does not recognize "until" as marking the end of a "repeat" block

01 Oct 2019 17:42 - John Abbott

Status:	Closed		Start date:	01 Oct 2019
Priority:	Normal		Due date:	
Assignee:	John Abbott		% Done:	100%
Category:	EmacsUI		Estimated time:	1.51 hour
Target version:	CoCoA-5.3.0		Spent time:	1.70 hour

Description

When typing in code into a CoCoA-5 buffer, emacs does not recognise that the keyword **until** as marking the end of a **repeat** block.
So if I then try to use C-c C-e to close another block (*e.g.* fn defn) then emacs's block nesting code thinks the repeat block is still open,
and all other blocks are then off-by-one.

History

#1 - 25 Oct 2019 15:27 - John Abbott

Here is a test case:

```
define john(n)
  ans := 0;
  repeat
    ans := ans + 1;
    n := n-1;
  until n < 0;
  return ans;
[[now ask Emacs to end the function C-c C-e]]
```

#2 - 25 Oct 2019 15:39 - John Abbott

- Status changed from New to Resolved

- % Done changed from 0 to 80

I think I may have solved this (without actually understanding what the emacs-lisp code does).

I have changed the definition of **cocoa5-endkeywords-list** so that it recognizes **until** and **Until** as end-keywords.
A quick test suggests that this works OK.

As far as I can see the emacs UI is quite simplistic, and will not indicate any problem if the start and end keywords do not match (*e.g.* if blah blah endwhile is regarded as an opened-and-closed block).

#3 - 25 Oct 2019 15:57 - John Abbott

- Assignee set to John Abbott

I now see that in **cocoa5.el** there are two very similar constants: **cocoa5-endkeywords-list** and **cocoa5-end-block-re**.
The only differences between them that I can see is that cocoa5-end-block-re includes until while the other does not, **and** cocoa5-end-block-re matches only whole words (*i.e.* it matches only inside \< and \>).

It looks like *cocoa5-autoindent-lines-re contains considerable redundancy because it contains both cocoa5-endkeywords-list and cocoa5-noindent-re; probably we can remove cocoa5-endkeywords-list from it.

There is similar redundancy around line 376 in the very long definition of **cocoa5-font-lock-keywords**.

#4 - 26 Oct 2019 09:11 - John Abbott

- Status changed from Resolved to Feedback

- % Done changed from 80 to 90

- Estimated time set to 1.44 h

I have made the changes which I think are right for having **until** recognized as an end-keyword.
I have tried to clean up the "self-documenting" code a bit, and hope that I've done the right changes.

Some simple tests pass. CVS-ed. Hoping Anna will also check this revised version.

#5 - 26 Oct 2019 09:53 - Anna Maria Bigatti

- Status changed from Feedback to Closed

- Target version changed from CoCoA-5.4.0 to CoCoA-5.3.0

- % Done changed from 90 to 100

- Estimated time changed from 1.44 h to 1.51 h

tried. works. closed.