

CoCoA-5 - Feature #771

New fns: MaxBy and MinBy to find minimum/maximum of a list wrt a given order

05 Sep 2015 15:58 - John Abbott

Status:	Closed	Start date:	05 Sep 2015
Priority:	Normal	Due date:	
Assignee:	John Abbott	% Done:	100%
Category:	CoCoA-5 function: new	Estimated time:	0.00 hour
Target version:	CoCoA-5.1.3/4 Jan 2016	Spent time:	2.15 hours
Description CoCoA offers SortBy for a sorting a list wrt a given order. Anders would like a fn to find the min/max of a list wrt a given order.			

History

#1 - 05 Sep 2015 16:01 - John Abbott

Do we want these fns?

I already have (simple) implementations in my own personal copy of list.cpkg5.

If we want them then someone must also write documentation.

#2 - 08 Sep 2015 12:08 - Anna Maria Bigatti

- % Done changed from 0 to 20

John Abbott wrote:

Do we want these fns?

I already have (simple) implementations in my own personal copy of list.cpkg5.

Yes!

If we want them then someone must also write documentation.

I can do it (after you check them in)

#3 - 08 Sep 2015 12:52 - John Abbott

- Status changed from New to In Progress

- % Done changed from 20 to 50

JAA has checked that the fns work on a simplish example.

Code checked in.

Anna say's she'll write doc. And a test?

```
>>> l:=["abc", "def", "g", "hijk", "lm"];
```

```
>>> MaxBy(l, shorter);
```

```
hijk
```

```
>>> MinBy(l, shorter);
```

```
g
```

#4 - 08 Sep 2015 13:44 - Anna Maria Bigatti

There is only one detail I'm undecided about:

you implemented the function with argument LessThan whereas it came natural to me to implement it as GreaterThan. I'm now investigating how else we use this kind of idea.

#5 - 08 Sep 2015 13:55 - John Abbott

I wanted to be compatible with SortBy and SortedBy, and perhaps also the C++ STL...

#6 - 08 Sep 2015 14:06 - Anna Maria Bigatti

John Abbott wrote:

I wanted to be compatible with SortBy and SortedBy, and perhaps also the C++ STL...

OK, I was confused... we always used LessThan. Maybe I should improve the manual ;-)

#7 - 10 Sep 2015 13:41 - Anna Maria Bigatti

Tested and documented (and improved manual for SortedBy)

#8 - 15 Sep 2015 09:34 - Anna Maria Bigatti

- Status changed from In Progress to Feedback

- Assignee set to John Abbott

- % Done changed from 50 to 90

#9 - 17 Feb 2016 12:40 - John Abbott

- Status changed from *Feedback* to *Closed*

- % Done changed from 90 to 100

Closing after 5 months in feedback.