

```

__ \ | | | __| _ \   Pure 0.56 (i686-pc-linux-gnu)
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```

Loaded prelude from /usr/local/lib/pure/prelude.pure.

```

> using reduce::reduce;
> const redimg = "/usr/local/lib/pure/reduce/reduce.img" ;
> cslstart 4 {"", "-i", redimg, "-v"} NULL ;

```

Codemist Standard Lisp 6.03 for generic:generic: Sep 26 2012
Created: Wed Sep 26 23:38:10 2012

Reduce (Free CSL version), 26-Sep-12 ...
Memory allocation: 13 Mbytes
()

```

> display p
= [] if PROC_null p ;
= PROC_symbol_name p if PROC_atom p && PROC_symbol p ;
= PROC_integer_value p if PROC_atom p && PROC_fixnum p ;
= display (PROC_first p):display (PROC_rest p) if ~PROC_atom p ;

```

Task: differentiate (x+1)² with respect to x

```

> PROC_clear_stack ; PROC_push_symbol "x" ;
PROC_push_small_integer 1 ;
PROC_make_function_call "plus" 2 ;
PROC_push_small_integer 2 ;
PROC_make_function_call "expt" 2 ;
PROC_push_symbol "x" ;
PROC_make_function_call "df" 2 ;
PROC_simplify ;
PROC_dup ;
PROC_save 1 ;
PROC_make_printable;

```

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```

> let p = PROC_get_value;
> display p ;
["plus", ["times", 2, "x"], 2]

```

>