/\* Maxima computer algebra system \*/

/\* symbolic constants \*/

[true, false, unknown, inf, minf, ind,

und, %e, %i, %pi, %phi, %gamma];

/\* programming keywords \*/

if a then b elseif c then d else f;

for x:1 thru 10 step 2 do print(x);

for z:-2 while z < 0 do print(z);

for m:0 unless m > 10 do print(m);

for x in [1, 2, 3] do print(x);

foo and bar or not baz;

/\* built-in variables \*/

[\_, \_\_, %, %%, linel, simp, dispflag,

stringdisp, lispdisp, %edispflag];

/\* built-in functions \*/

[sin, cosh, exp, atan2, sqrt, log, struve\_h,

sublist\_indices, read\_array];

/\* user-defined symbols \*/

[foo, ?bar, baz%, quux\_mumble\_blurf];

/\* symbols using Unicode characters \*/

[Љ, Щ, щ, Ӄ, ЩЩЩ, ӃӃЉЉщ];

/\* numbers \*/

ibase : 18 $

[0, 1234, 1234., 0abcdefgh];

reset (ibase) $

[.54321, 3.21e+0, 12.34B56];

/\* strings \*/

s1 : "\"now\" is";

s2 : "the 'time' for all good men";

print (s1, s2, "to come to the aid",

"of their country");

/\* expressions \*/

foo (x, y, z) :=

if x > 1 + y

then z - x\*y

elseif y <= 100!

then x/(y + z)^2

else z - y . x . y;