EXAMPLE FILE FOR M2INTEX

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1. Introduction

some basic examples:

```
R=QQ[x,y]; factor(x^3-y^3)
res coker vars R
OO_(Proj(R/(x^3-y^3)))^{1,2}
matrix {{1,2},{3,4}}
```

more:

```
318/46
exp 3.73767
```

strings:

```
"hehe"
```

and nets:

```
"haha123456789"||"hoho!@#$%^&*("
```

printing:

```
for i from 1 to 4 do print(i+ii)
```

2. Help

```
help det
```

3. Packages

packages that have a `tex` output will work:

```
needsPackage "Posets";
booleanLattice 3
```

4. Tricky examples

```
-- some tricky examples
```

A bunch of complicated cases: a multi-line example

```
f = i -> (
-- that's dumb
i+1
)
```

and another weirder one:

```
I=ideal 0; f = i -> (
i+1)
```

finally:

```
a=1;b=2;
c=3;
```

That last one has no output.

5. Reusing output

The output `o5` is `[Macaulay2 output o5]`. The nonexistent output `o18` is `[Macaulay2 output o18]`.

6. Inputting from external file

Some more code:

```
-- a test file
R=QQ[x,y,z]
poincare ideal(x^2+y^2,x^3+z^3)
```

7. Changing key/values

```
"some␣weird␣spacing␣␣and␣string␣style"
```