

# Clean GP programming with a view to GP2C

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## Function definition

Define your function as follow :

```
fun (x, y, z=0, t=1) =  
{  
    my (a, b, c);  
    ...;  
    a;  
}
```

- ▶ Put the braces on the line after the = sign.
- ▶ Add a trailing semicolon.
- ▶ Denote all optional arguments with z=.
- ▶ Avoid useless return at the end.
- ▶ Declare all local variables with my().

# Loops

```
{  
    my(s);  
    forprime(p=3,,  
        if(p%4==1,s++,  
            s--);  
        if(s==1,  
            return(p))  
    );  
}
```

- ▶ Indent your code.
- ▶ Do not declare automatic loop variable.

- ▶ Avoid global variables.
- ▶ Write indeterminate using '`x`' instead of `x`.
- ▶ Run `gp2c -W` on your program to check for problems.
- ▶ Use `\g1` under GP when reading your script to get warnings about copy problem.