

## Lack of Static Declaration (LSD)

**Example:** As shown in Listing 1, THPMODULE\_SETDEFAULTDTYPE is a native C++ function. Its purpose is to set a default data type for PyTorch tensors<sup>1</sup>. If this module is ported, or in the future, if new extension modules have the same requirement, and developers might not be aware of this function, it could lead to naming conflicts.

```
1 PyObject* THPMODULE_setDefaultDtype(PyObject* _unused, PyObject* dtype) {  
2     HANDLE_TH_ERRORS  
3     torch::tensors::py_set_default_dtype(dtype);  
4     Py_RETURN_NONE;  
5     END_HANDLE_TH_ERRORS  
6 }
```

Listing 1. Design Smell - Lack of Static Declaration

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<sup>1</sup><https://github.com/pytorch/pytorch/blob/v2.0.0/torch/csrc/Module.cpp>[262-267]