```
std::vector< input t >
                                    Stack< input_t >
                                                                xstack
                                                                              VirtualMachineState
std::vector< std::pair
                                 Stack< std::pair< index
                                                              memstack
                                                                              < _t_input, _t_output,
< index t, input t > >
                                     _t, input_t > >
                                                                                  VM TYPES >
                                                                _stack
                                VirtualMachineState
                                < t input, t output,
                                 VM TYPES >::t_stack<
                                    VM TYPES... >
```