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CSC 510

HW 3

Vim installation:

```
PS C:\Users\mfira> vim --version
VIM - Vi IMproved 9.1 (2024 Jan 02, compiled Jan 2 2024 16:11:16)
MS-Windows 64-bit console version
Compiled by Christian Brabandt <cb@256bit.org>
Huge version without GUI.  Features included (+) or not (-):
+acl                +ex_extra          +multi_lang        -tag_any_white
+arabic            +extra_search      +mzscheme/dyn      -tcl
+autocmd           -farsi             -netbeans_intg     +termguicolors
+autocmdir         +file_in_path      +num64             +terminal
+autoservername    +find_in_path      +packages          -termresponse
-balloon_eval      +float            +path_extra        +textobjects
+balloon_eval_term +folding           +perl/dyn          +textprop
-browse            -footer           +persistent_undo   -tgetent
++builtin_terms    +gettext/dyn       +popupwin          +timers
+byte_offset       -hangul_input      -postscript        +title
+channel           +iconv/dyn         +printer           -toolbar
+cindent           +insert_expand     +profile           +user_commands
+clientserver      +ipv6             +python/dyn        +varargs
+clipboard         +job              +python3/dyn-stable +vertsplit
+cmdline_compl     +jumplist          +quickfix          +vim9script
+cmdline_hist      +keymap            +reltime           +viminfo
+cmdline_info      +lambda            +rightleft         +virtualedit
+comments          +langmap           +ruby/dyn          +visual
+conceal           +libcall           +scrollbind        +visualextra
+cryptv            +linebreak         +signs             +vreplace
+cscope           +lispindent        +smartindent       +vtp
+cursorbind        +listcmds          +sodium/dyn        +wildignore
+cursorshape       +localmap          +sound             +wildmenu
+dialog_con        +lua/dyn           +spell             +windows
+diff              +menu              +startuptime       +writebackup
+digraphs          +mksession         +statusline        -xattr
-dnd               +modify_fname      -sun_workshop      +xfontset
-ebcdic            +mouse             +syntax            -xim
+emacs_tags        -mouseshape        +tag_binary        +xpm_w32
+eval              +multi_byte_ime/dyn -tag_old_static    -xterm_save

system vimrc file: "$VIM/vimrc"
user vimrc file: "$HOME/vimrc"
2nd user vimrc file: "$HOME/vimfiles/vimrc"
3rd user vimrc file: "$VIM/vimrc"
user exrc file: "$HOME/exrc"
2nd user exrc file: "$VIM/exrc"
defaults file: "$VIMRUNTIME/defaults.vim"
```

.vimrc for plugins:

```
" Initialize plugin system
call plug#begin('~\vimfiles\plugged')

" NERDTree, a file explorer plugin
Plug 'preservim/nerdtree'

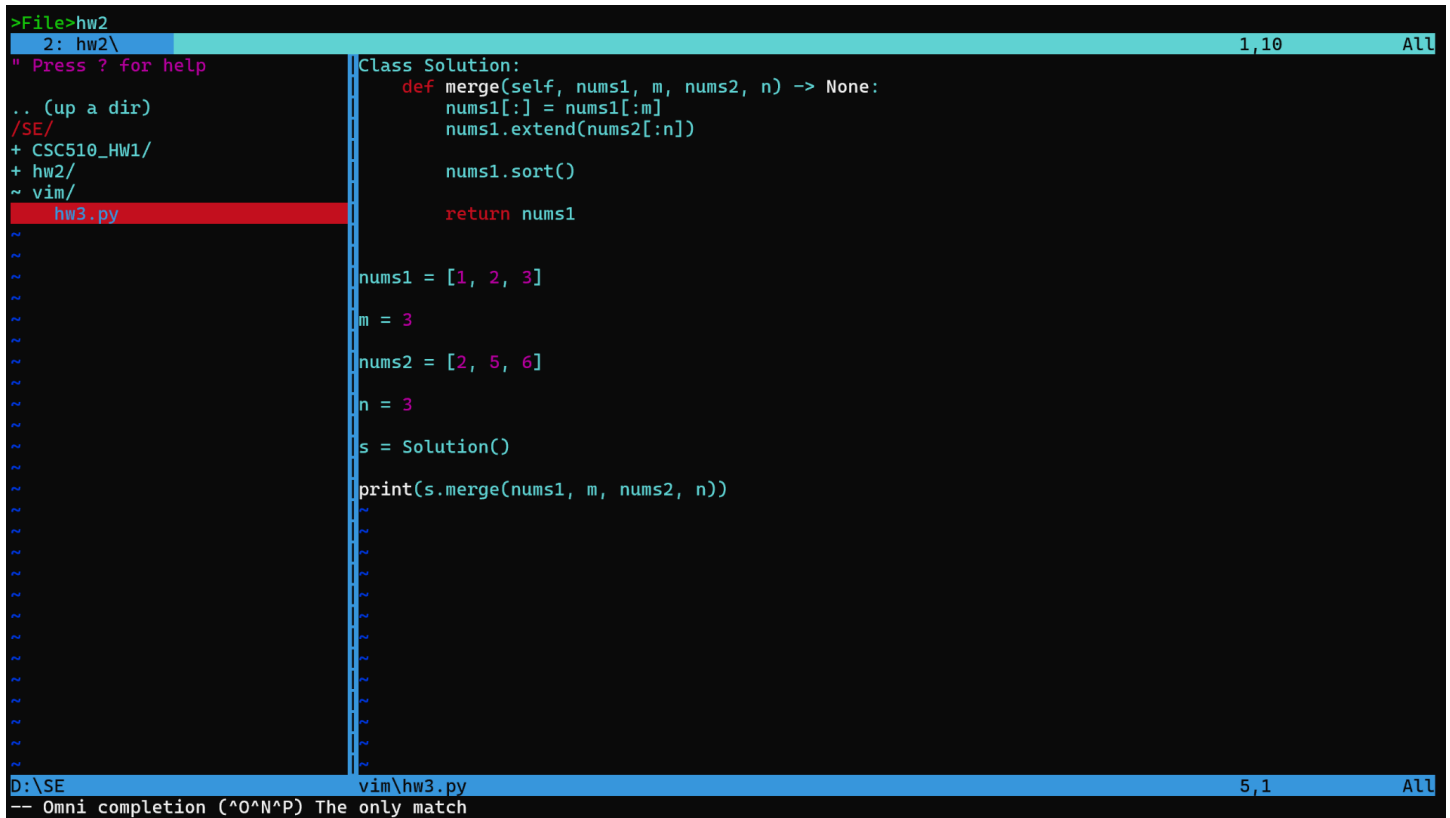
" FuzzyFinder for fuzzy file, buffer, mru, tag, etc searching
Plug 'vim-scripts/L9'
Plug 'vim-scripts/FuzzyFinder'

" Jellybeans colorscheme
Plug 'nanotech/jellybeans.vim'

" Finish plugin initialization
call plug#end()

" NERDTree settings
autocmd VimEnter * NERDTree
map <F2> :NERDTreeToggle<CR>
```

Plugins in action:



The screenshot shows a Vim editor window with a dark background and light-colored text. The editor is split into two main panes. The left pane displays the NERDTree file explorer, showing a directory tree with the following structure:

- >File>hw2
- 2: hw2\
- " Press ? for help
- .. (up a dir)
- /SE/
- + CSC510_HW1/
- + hw2/
- ~ vim/
- hw3.py

The right pane displays the code for the `hw3.py` file, which contains a Python class `Solution` with a `merge` method. The code is as follows:

```
Class Solution:
    def merge(self, nums1, m, nums2, n) -> None:
        nums1[:] = nums1[:m]
        nums1.extend(nums2[:n])

        nums1.sort()

        return nums1

nums1 = [1, 2, 3]
m = 3
nums2 = [2, 5, 6]
n = 3
s = Solution()
print(s.merge(nums1, m, nums2, n))
```

The bottom status bar of the editor shows the following information:

- 0:\SE
- vim\hw3.py
- 5,1
- All
- Omni completion (^O^N^P) The only match

The NERDTree can be seen as the panel in the editor, FuzzyFinder also can be seen as being used as I type “hw2” it shows the relevant file as expected. The color scheme used here is the elflord.