

Specification of Contestant PC

Operating System

Ubuntu 20.04.5 LTS (Focal Fossa)

Note

The manifestation of the following packages are from the previous ISO for ICPC Dhaka Regional 2021.

Most of the packages are updated in the current ISO, reflecting a “sudo apt dist-upgrade” on Jan 24, 2023.

[TODO] Update the package versions in this document.

Compilers

- C
 - gcc-10 (Ubuntu 10.3.0-1ubuntu1~20.04) 10.3.0 (alias: **gcc** and **gcc-10**)
 - gcc-9 (Ubuntu 9.4.0-1ubuntu1~20.04.1) 9.4.0 (alias: **gcc-9**)
- C++
 - g++-10 (Ubuntu 10.3.0-1ubuntu1~20.04) 10.3.0 (alias: **g++** and **g++-10**)
 - g++-9 (Ubuntu 9.4.0-1ubuntu1~20.04.1) 9.4.0 (alias: **g++-9**)
- Java
 - openjdk 11.0.16 2022-07-19 (alias: **java**)
- Python 2
 - Python 2.7.18 (alias: **python2** and **python2.7**)
- Python 3
 - Python 3.10.7 (alias: **python3.10**)
 - Python 3.8.10 (alias: **python3** and **python3.8**)

Editors

- VIM - Vi IMproved 8.1 (alias: **vim**)
 - [Feature list](#), [Basic Vimrc](#)
- GNU Emacs 26.3 (alias: **emacs**)
- GNU nano, version 4.8 (alias: **nano**)
- Sublime Text Build 3211 (alias: **subl**)
- Visual Studio Code 1.71.0 (alias: **code**)
- gedit - Version 3.36.2 (alias: **gedit**)

IDEs

- Code::Blocks 20.03
 - +codeblocks-contrib, +codeblocks-common
 - [Default Settings](#)

- Geany 1.36
- IntelliJ IDEA Community Edition 2021.3
- PyCharm Community Edition 2021.3
- Apache Netbeans IDE 12.6

APPENDIX

Vim features

```
Huge version with GTK3 GUI. Features included (+) or not (-):
+acl          -farsi          -mouse_sysmouse   -tag_any_white
+arabic        +file_in_path    +mouse_urxvt     +tcl
+autocmd       +find_in_path    +mouse_xterm     +termguicols
+autochdir     +float           +multi_byte      +terminal
-autoservername +folding         +multi_lang      +terminfo
+balloon_eval   -footer          -mzscheme        +termresponse
+balloon_eval_term +fork()        +netbeans_intg  +textobjects
+browse         +gettext          +num64           +textprop
++builtin_terms -hangul_input   +packages         +timers
+byte_offset    +iconv            +path_extra      +title
+channel        +insert_expand   +perl             +toolbar
+cindent         +job              +persistent_undo +user_commands
+clientserver   +jumpplist       +postscript      +vartabs
+clipboard      +keymap          +printer         +vertsplit
+cmdline_compl +lambda          +profile         +virtualedit
+cmdline_hist   +langmap         -python           +visual
+cmdline_info   +libcall          +python3          +visualextra
+comments       +linebreak        +quickfix        +viminfo
+conceal         +lispindent       +reltime         +vreplace
+cryptv         +listcmds        +rightleft       +wildignore
+cscope          +localmap         -ruby             +wildmenu
+cursorbind     +lua              +scrollbind     +windows
+cursorshape    +menu             +signs            +writebackup
+dialog_con_gui +mksession       +smartindent     +X11
+diff           +modify_fname   +sound            -xfontset
+digraphs        +mouse            +spell             +xim
+dnd             +mouseshape      +startuptime     +xpm
-ebcdic          +mouse_dec        +statusline      +xsmp_interact
+emacs_tags     +mouse_gpm        -sun_workshop    +xterm_clipboard
+eval            -mouse_jsbterm   +syntax           -xterm_save
+ex_extra        +mouse_netterm   +tag_binary      +xterm_save
+extra_search   +mouse_sgr        -tag_old_static
```

.vimrc

```
syntax on
set termguicolors          " use full 24-bit color
set number                  " show line numbers
set autoindent               " automatic indent
set foldmethod=syntax        " syntax based folding
set noloadenable            " don't open file in folds
set cursorline               " highlight the line under cursor
set laststatus=2              " show status bar
set linebreak                " don't break words
set scrolloff=5               " let 5 lines after cursor
```

```

set showcmd                                " show commands
set wildmenu                               " display all matching files when we
tab-complete
set tabstop=4                                " tab size in columns
set shiftwidth=4                            " indentation size
"
https://medium.com/@arisweedler/tab-settings-in-vim-1ea0863c5990
set noexpandtab                            " don't insert spaces, default
set backspace=indent,eol,start           " get backspace to work on these situations

```

Code::Blocks Default Settings Checklist

The following are already done for you:

1. Go to Settings -> Editor -> General Settings and check () the following items
 - a. Auto Indentation
 - b. Auto brace completion
 - c. Show line number
2. Unnecessary shortcut buttons should be removed from the menu bar to make the coding space larger
3. Go to Settings -> Compiler -> Global Settings -> Compiler Settings -> Compiler Flags and check () the following items
 - a. Have g++ follow the C++14 ISO [-std=c++14]
 - b. Optimize even more (for speed) [-O2]
4. Go to Settings -> Environment -> General Settings -> Terminal to launch console programs, select **gnome-terminal** from drop down list