Judging Details

Judge System

Your programs will be run inside a *sandboxed environment*, i.e. with protections to prevent the system from being damaged. Specifically:

- Memory usage is limited to 2 GB in the environment. Note it is the total amount, not the amount you can use exclusively in your programs.
- The stack size is set unlimited (in C/C++), only capped by the total memory limit.
- Multi-processing or multi-threading is discouraged and unlikely beneficial, though not prohibited. Remember your programs will run on a single core of processor. The total number of processes is limited to 15, including ones the system may create outside your programs.
- It is *never* recommended to run external commands. It is technically possible but probably does not work as you expect.

If you have no idea about what these mean — no worries. Just remember your programs should use the standard input and output, not files. Everything else should be unrelated to you.

There are a couple more restrictions that apply:

- The total amount of source code must not exceed 256 KB in each submission.
- Your program must compile within 30 seconds.

See the DOMjudge team manual for more details about these restrictions.

Note about Platform

The judge system is running on Google Compute Engine, C2 machine type (c2-standard-4). For more information about Google Compute Engine, please visit

https://cloud.google.com/compute/docs/cpu-platforms

Compilers & Options

The judge system uses the following compilers and options to compile and run your programs.

"\$@" is substituted with your source file(s); "\$DEST" is the name of the binary (which is "./a.out" by default) and is chosen arbitrarily by the system.

С				
Version	gcc (Debian 8.3.0-6) 8.3.0			
Compile	gcc -g -O2 -std=gnu11 -static -o "\$DEST" "\$@" -lm			
Run	"\$DEST" < <u>infile</u> > <u>outfile</u>			
C++				
Version	g++ (Debian 8.3.0-6) 8.3.0			
Compile	g++ -g -O2 -std=gnu++17 -static -o "\$DEST" "\$@"			
Run	"\$DEST" < <u>infile</u> > <u>outfile</u>			
Java				
Version	OpenJDK: "11.0.9+11-post-Debian-1deb10u1"			
Compile	javac -encoding UTF-8 -sourcepathd . "\$@"			
Run ¹	java -Dfile.encoding=UTF-8 -XX:+UseSerialGC -Xss64m -Xms1920m -Xmx1920m <u>MainClass</u> < <u>infile</u> > <u>outfile</u>			
Python 3 (PyPy)				
Version	Python 3.5.3 (7.0.0+dfsg-3, Feb 21 2019, 03:51:22) [PyPy 7.0.0 with GCC 8.2.0] on linux			
Compile ²	pypy3 -m py_compile "\$@"			
Run	pypy3 "\$@" < <u>infile</u> > <u>outfile</u>			
Kotlin				
Version	kotlinc-jvm 1.3.50			
Compile	kotlinc -d . "\$@"			
Run²	kotlin -Dfile.encoding=UTF-8 -J-XX:+UseSerialGC -J-Xss64m -J-Xms1920m -J-Xmx1920m <u>MainClass</u> < <u>infile</u> > <u>outfile</u>			

¹ DOMjudge will detect the main class automatically; you do not have to name it Main. See the DOMjudge team manual for details.

² Python's "Compile" commands only verify the syntax. *.pyc files will *not* be used in the real run.

Submission Results

Your submissions will eventually be responded with one of the following results:

Accepted

• **CORRECT** — Your program ran successfully and passed all test cases.

Rejected with 20-minute penalty

- **WRONG-ANSWER** Your program neither crashed nor exceeded the time limit, but produced incorrect output for some test case(s).
- **NO-OUTPUT** Your program did not produce any output for some test case(s).
- **TIMELIMIT** Your program did not finish within the time limit for some test case.
- **RUN-ERROR** Your program crashed with some test case or otherwise exited with a non-zero exit status (e.g. because of missing "return 0;" in C/C++).
- **OUTPUT-LIMIT** Your program produced excessive output (> 4 MB) for some test case.

Rejected with no penalty

- **COMPILE-ERROR** Your program did not compile on the judging environment. You can consult error message(s) on the submission details page.
- **TOO-LATE** Your program was submitted after the contest was over.³

Note to Python Users

The judges have solved all problems in C++ and Java, but not necessarily in Python. They do not guarantee that all problems can be solved in Python.

Only syntax errors will be reported as **COMPILE-ERROR**. Other types of errors, such as **NameError** or **ModuleNotFoundError**, will result in **RUN-ERROR** and incur a 20-minute penalty.

It is fine, though not needed, to start your scripts with an interpreter directive (line starting with "#!", also known as *shebang*).⁴

The full list of modules available in the judge system can be found in the following pages.

³ Note it does not mean your programs need to be *judged* before the end of the contest. Your programs will be judged as long as submitted ("*queued*") within the contest time.

⁴ Some past versions of DOMjudge refused scripts that contain a shebang.

Available Python Modules

_asyncio appdirs html select asyncio appdirs htmpsilib select bisect argparse http selectors blake2 array idna setuptools bootlocale ast imaplib shelve bz2 asynchat imghdr shlex codecs asyncio imp shutil codecs, by audioop io sitecustomize codecs, iso2022 audioop io sitecustomize codecs, by base64 ipaddress six codecs, by binascii json smtplib collections binhex keyword sndhdr collections abb bisect lib2to3 socket compat_pickle compression bz2 locale spwd crypt cProfile lockfile sqlites csv cachecontrol logging sre_compile ctypes calendar lzma sre_constants curses curses cgit macpath sre_parse curses cgitb macurl2path ssl curses cgitb macurl2path datetime chunk mailcap statistics dbm cmath marshal string decimal cmd math stringrepe ddummy_thread code mimetypes struct elementtree codecs mmap subprocess functools codeop modulefinder sunau gdbm collections multiprocessing symbol heapq colorsys nis sys imp compileall nntplib sysconfig joon confignarser nturl2path tabnanny locale contextlib numbers tarfile lsprof copy opcode telnetlib lsprof copy opcode tel	future	aifc	hmac	sched
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_pyio	distro	pipes	traceback
_random	distutils	pkg_resources	tracemalloc
_sha1	doctest	pkgutil	tty
_sha256	dummy_threading	platform	turtle
_sha3	easy_install	plistlib	types
_sha512	email	poplib	typing
_signal	encodings	posix	unicodedata
_sitebuiltins	ensurepip	posixpath	unittest
_socket	enum	pprint	urllib
_sqlite3	errno	profile	urllib3
_sre	faulthandler	pstats	uu
_ssl	fcntl	pty	uuid
_stat	filecmp	pwd	venv
_string	fileinput	<pre>py_compile</pre>	warnings
_strptime	fnmatch	pyclbr	wave
_struct	formatter	pydoc	weakref
_symtable	fractions	pydoc_data	webbrowser
_sysconfigdata_m_li	ftplib	pyexpat	webencodings
_testbuffer	functools	pyparsing	wsgiref
_testcapi	gc	queue	xdrlib
_testimportmultiple	genericpath	quopri	xml
_testmultiphase	getopt	random	xmlrpc
_thread	getpass	re	xxlimited
_threading_local	gettext	readline	xxsubtype
_tracemalloc	glob	reprlib	zipapp
_warnings	grp	resource	zipfile
_weakref	gzip	retrying	zipimport
_weakrefset	hashlib	rlcompleter	zlib
abc	heapq	runpy	