



# Zkoušková písemka z C++

1.2.2019



# Instructions



- 4 hours
- Wait for evaluation
  - Earlier submission -> 1 correction
- Load **all** sources into SIS (even if not succesfull)
- 60 points (50 ~ functionality, 10 ~ style)
  - Minimal 18 points
- Cheats
  - Internet only for C++ references e.g. cppreference, cplusplus,...
  - No stackoverflow, atd...
  - Slides
- Don't use any existing code

# Notes manager

## Input:

[line count]  
[cmd] [priority] [year] ([month]) ([day]) "[msg]"

- **[cmd]** (char)
  - **i** – insert on given date (year/year+month/year+month+day)
  - **d** – delete all records from given date (year/year+month/year+month+day)
  - **p** – print sorted by **inserted** order,
  - **pp** – print sorted by **priority** (lower first)
  - **pd** – print sorted by **date** (sooner first)
- **[priority]** – integer
- **[year]** – integer,  $0 \leq \text{year} \leq 3000$
- **[month]** – integer, optional,  $1 \leq \text{month} \leq 12$
- **[day]** – integer, optional, if included -> month included too;
- **"[msg]"** – string, inside quotes, can contains spaces

## Output:

for valid line -> "ok"  
for invalid line -> "invalid" + exit program  
for print -> print whole record

## Notes:

- Format of the input is correct, numbers might not be -> invalid
- No leap year (February has 28 days)
- If sorting by date and record has no value -> put it at the end (sort by insertion order)
- Sort secondary by insertion order
- If delete/print empty -> print "ok"
- Try redirect the example into the program
- Minimal: no date check + no invalid + insert + delete + not sorted print (see webpage)

## Example:

```
15 //> ok
p 2018 //> ok
i 3 2000 12 3 "Note Dec 3rd" //> ok
i 3 2000 1 1 "New Year" //> ok
i -10 2019 2 1 "cpp exam" //> ok
d 2000 //> ok
p 2000 //> ok
p 2000 1 1 //> ok
i 0 2019 "good year" //> ok
i 0 2019 3 "March 2019" //> ok
pp 2019
//> ok
//> -10 2019 2 1 "cpp exam"
//> 0 2019 "good year"
//> 0 2019 3 "March 2019"
d 2019 2 29
//> invalid
// program exits
```