

# Työseloste C++

Aleksi Leppinen 20.5.2023

Itse windows-ympäristössä buildasin ohjelman **"cl /std:c++20 /EHsc days.cpp event.cpp"** komennolla visual studio developer powershellissä. Annettujen esimerkkikomentojen pitäisi toimia omien testieni mukaan. Pienet erot ovat, että poistettaessa tapahtumia pitää antaa koko kategoria/kuvaus, eikä riitä vain alku ja kategorioita ei voi antaa useita etsiessä tapahtumia.

En käyttänyt mitään erikoisuuksia taikka kolmannen osapuolen kirjastoja, joten ajon pitäisin onnistua mutkattomasti.

Omasta mielestäni ohjelma toteuttaa vaatimukset melko hyvin, joten itse arvioisin sen ainakin kuuden pisteen arvoiseksi.

Tämä C++:osuus hiukan myöhästyi töiden vuoksi, mutta vain parilla päivällä. Java-versio myöhästyy hieman enemmän.

Ajoesimerkkejä:

```
PS C:\Users\axule\OneDrive\Documents\A_tyopoyta\ohjl_syven\harjtyo1\days_cpp> ./days list
2020-12-15: C++20 released (computing) - 886 days ago
2023-01-10: Rust 1.66.1 released (computing) - 130 days ago
2022-09-20: Java SE 19 released (computing) - 242 days ago
2023-05-20: saturday (weekday) - today
```

```
PS C:\Users\axule\OneDrive\Documents\A_tyopoyta\ohjl_syven\harjtyo1\days_cpp> ./days list --today
2023-05-20: saturday (weekday) - today
```

```
PS C:\Users\axule\OneDrive\Documents\A_tyopoyta\ohjl_syven\harjtyo1\days_cpp> ./days list --before-date 2022-02-24
2020-12-15: C++20 released (computing) - 886 days ago
```

```
PS C:\Users\axule\OneDrive\Documents\A_tyopoyta\ohjl_syven\harjtyo1\days_cpp> ./days add --date 2038-01-19 --category computing --description "Unix clock rolls over"
Event added successfully.
PS C:\Users\axule\OneDrive\Documents\A_tyopoyta\ohjl_syven\harjtyo1\days_cpp> ./days list
2020-12-15: C++20 released (computing) - 887 days ago
2023-01-10: Rust 1.66.1 released (computing) - 131 days ago
2022-09-20: Java SE 19 released (computing) - 243 days ago
2014-11-12: .NET Core released (computing) - 3112 days ago
2038-01-19: Unix clock rolls over (computing) - in 5357 days
```

```
PS C:\Users\axule\OneDrive\Documents\A_tyopoyta\ohjl_syven\harjtyo1\days_cpp> ./days add --category school --description "Starting course work"
Event added successfully.
PS C:\Users\axule\OneDrive\Documents\A_tyopoyta\ohjl_syven\harjtyo1\days_cpp> ./days list
2020-12-15: C++20 released (computing) - 887 days ago
2023-01-10: Rust 1.66.1 released (computing) - 131 days ago
2022-09-20: Java SE 19 released (computing) - 243 days ago
2014-11-12: .NET Core released (computing) - 3112 days ago
2038-01-19: Unix clock rolls over (computing) - in 5357 days
2023-05-21: Starting course work (school) - today
```

```
2038-01-19: Unix clock rolls over (computing) - in 5357 days
2023-05-21: Starting course work (school) - today
PS C:\Users\axule\OneDrive\Documents\A_tyopoyta\ohjl_syven\harjtyo1\days_cpp>
PS C:\Users\axule\OneDrive\Documents\A_tyopoyta\ohjl_syven\harjtyo1\days_cpp> ./days delete --description "Starting course work"
Event deleted successfully.
PS C:\Users\axule\OneDrive\Documents\A_tyopoyta\ohjl_syven\harjtyo1\days_cpp>
PS C:\Users\axule\OneDrive\Documents\A_tyopoyta\ohjl_syven\harjtyo1\days_cpp> ./days list
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Event deleted successfully.
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PS C:\Users\axule\OneDrive\Documents\A_tyopoyta\ohjl_syven\harjtyo1\days_cpp> ./days delete --category computing --dry-run
Dry run completed successfully, event(s) would have been deleted.
PS C:\Users\axule\OneDrive\Documents\A_tyopoyta\ohjl_syven\harjtyo1\days_cpp> ./days list
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2023-01-10: Rust 1.66.1 released (computing) - 131 days ago
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PS C:\Users\axule\OneDrive\Documents\A_tyopoyta\ohjl_syven\harjtyo1\days_cpp> ./days delete --all
Event(s) deleted successfully.
PS C:\Users\axule\OneDrive\Documents\A_tyopoyta\ohjl_syven\harjtyo1\days_cpp> ./days list
PS C:\Users\axule\OneDrive\Documents\A_tyopoyta\ohjl_syven\harjtyo1\days_cpp>
```