Main

Load data (read from JSON)

Sava data (write to JSON)

Person

Type t 🡪 person list (all people)

Add person (person fields value)

Delete person (person id)

Edit person (person id) (field to update) (field value)

Print person (person id or None)

\*Person is a Signature, we can make two structs that use Person, one for students, one for teachers

student type -- net id, student name, grad year

teacher type – net id, teacher name

Courses

Type t 🡪 course list

course -- course id, course title, assignment list, student list, teacher list

Add course (course fields value)

Delete course (course id)

Edit course (course id) (field to update) (field value)

Print course (course id or None)

Assignment type -- assignment id, assignment title, weight, grades map (0 by default)

Add assignment (course id, assignment field values)

Delete assignment (course id, assignment id)

Edit assignment (course id, assignment id)

Print assignment (course id, assignment id or none)

Add/Remove student to Course (course id, student id)

Add/remove teacher to course (course id, teacher id)

Grade assignment (course id, assignment id)

Compute course grade for student (course id, student id)

Print students