

Daniel Leeds, 15-212 R06, October 3, 2007

**Crosswords:**

type board = bool list list

type dict = string list

type coord = int \* int

type word = coord \* int

across : board -> word list

down : board -> word list

intersects: word -> word -> bool

filterDict : int \* char -> dict -> dict

type halfpartial = (word \* dict) list

type partial = halfpartial \* halfpartial

type halvesol = (coord \* string) list

type solution = halvesol \* halvesol

update : halfpartial -> word -> string -> halfpartial option

search : partial -> halvesol -> (unit -> solution option) -> solution option