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 halfsol = (coord * string) list

type solution = halfsol * halfsol

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

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