```
class button:
   def __init__ (self, x, y, size):
        self. x = x
        self._y = y
        self. size = size
        self._tile = touchqui.image_tile (blank_list ("wallv", size),
                                           x, y,
                                          size, size, cellback)
   def to_blank (self):
        self. tile.set images (blank list ("wallv", cell size))
    def to wall (self):
        self._tile.set_images (wall_list ("v", cell_size))
    def to_spawn (self):
        self._tile = touchgui.text_tile (dark_grey, light_grey, white, mid_grey,
                                         's', self._size,
                                         self. x, self. y,
                                         self. size, self. size,
                                         worldspawn, "worldspawn")
    def get_tile (self):
        return self. tile
```

- note the next_tile is now a variable which contains an enumerated value
 - denoting the cell type to be created on the grid
- notice the dictionary of enumerated values associated with functions

```
def cellback (param, tap):
    global clicked, cell array, button array, double tapped cell
    clicked = True
    mouse = pygame.mouse.get_pos ()
    x, y = get cell (mouse)
    old = cell_array.get (x + xoffset, y + yoffset)
    button = button array.get (x + xoffset, y + yoffset)
    if old == " ":
        # blank -> next tile
        function create[next tile] (button)
        cell array.set contents (x + xoffset, y + yoffset, "v")
    elif old == "v":
        # wall -> door
        button.to door ()
        cell_array.set_contents (x + xoffset, y + yoffset, " | ")
    elif old == "|":
        # door -> blank
       button.to blank ()
        cell_array.set_contents (x + xoffset, y + yoffset, " ")
```

```
def create_blank (button):
    button.to_blank ()

def create_wall (button):
    button.to_wall ()

def create_door (button):
    button.to_door ()

def create_spawn (button):
    global next_tile
    button.to_spawn ()
    next_tile = wall_t
```

Hints on how to implement the header for the output map

- we need a mechanism to allow the program to remember which assets have been used
- then just prior to writing the file the program needs to iterate over the list and emit the appropriate header info