

Module 09: Data Structure

Chul Min Yeum

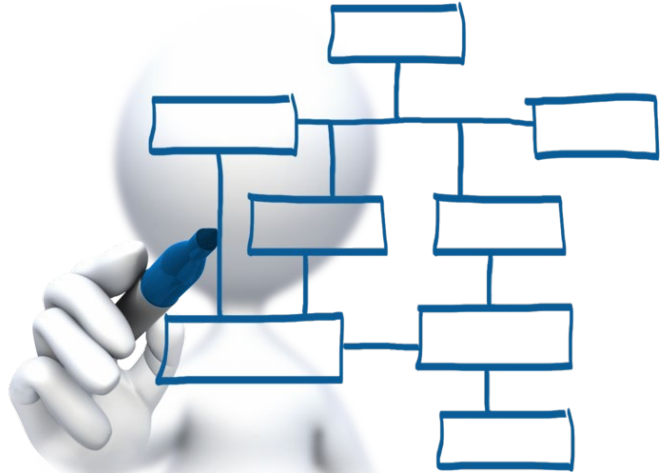
Assistant Professor

Civil and Environmental Engineering

University of Waterloo, Canada



UNIVERSITY OF WATERLOO
FACULTY OF ENGINEERING



M09-Q1: What value is assigned to 'val'?

```
cl_info = {'Chul Min', 'CIVE', 100010, [80 ...  
90], [70 30 50], [4 5 1 2], '4B'};
```

```
val = cl_info{3}(1) + cl_info{4}(1) +  
cl_info{6}(3);
```

- 1) 100091
- 2) 82
- 3) 85
- 4) 87



M09-Q2: Which of the following scripts have syntax or runtime errors?

Given code



```
cl_info = { 'Chul Min', 'CIVE', 100010, [80 90  
10], [70 30 50], 8, '4B' };
```

(a)

```
val1 = cl_info{3} + cl_info{6}
```

(b)

```
val2 = cl_info{4} + cl_info{5}
```

(c)

```
val3 = cl_info(4) + cl_info(5)
```

(d)

```
val4 = cl_info{3} + cl_info{4}
```

M09-Q3: Which of the following scripts have syntax or runtime errors?

Given code



```
cl_info = {'Chul Min', 'CIVE', 100010, [80 90  
10], [70 30 50], 8, '4B'};
```

(a) `cl_info{1} = [1 2 3]`

(b) `cl_info(1) = [1 2 3]`

(c) `cl_info{4}(1) = 100;`

(d) `cl_info{1:2} = ['Jesse', 'ENVE']`

(e) `cl_info(1:2) = {'Jesse', 'ENVE'}`

M09-Q4: What value is assigned to 'val'?

```
class = cell(4, 4);

class(1,:) = {'Chulmin', 100, 98, 65 };
class(2,:) = {'Jesse', 65, 20, 50};
class(3,:) = {'Noreen', 45, 100, 13};
class(4,:) = {'Vlad', 70, 11, 92};

vec = cell2mat(class(:, 3));
% vec = [class(:,3)];

[~, ind] = max(vec);

val = class(ind, 1);
```

