

Sample Course Name

# Sample Course Name

Week-1 (Sample Course Module Name)

Spring Semester, 20XX-20XX

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## Outline

- Sample Outline
- Sample Outline
- Sample Outline
- Sample Outline

# Sample Topic

## Sample Topic

- **What is Lorem Ipsum?**

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s,

- when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries,
  - but also the leap into electronic typesetting, remaining essentially unchanged.
    - It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.

## Sample Images-1

- **What is Lorem Ipsum?**

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## Sample Images-2

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## Sample Images-3

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## Sample Images-4

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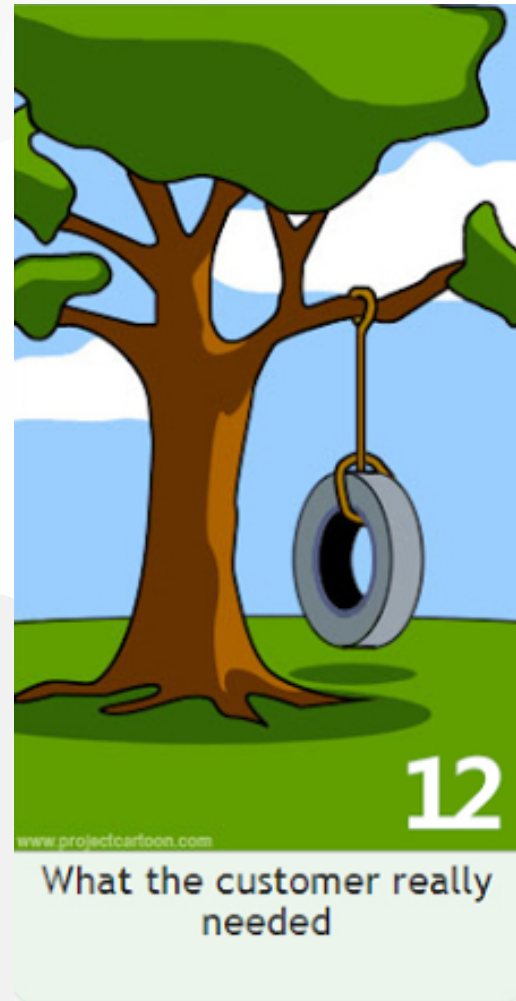




## Sample Images-5

- **What is Lorem Ipsum?**  
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## Sample Images-6

- **What is Lorem Ipsum?**  
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compute  $m[i, i + 1]$   
 $\{m[1, 2], m[2, 3], \dots, m[n - 1, n]\}$   
 $(n-1)$  values

for  $i = 1$  to  $n - 1$  do  
 $m[i, i + 1] = \infty$  (1)  
 for  $k = i$  to  $i$  do  
 $\vdots$

compute  $m[i, i + 2]$   
 $\{m[1, 3], m[2, 4], \dots, m[n - 2, n]\}$   
 $(n-2)$  values

$\ell = 3$   
 for  $i = 1$  to  $n - 2$  do  
 $m[i, i + 2] = \infty$  (1)  
 for  $k = i$  to  $i + 1$  do  
 $\vdots$

compute  $m[i, i + 3]$   
 $\{m[1, 4], m[2, 5], \dots, m[n - 3, n]\}$   
 $(n-3)$  values

$\ell = 4$   
 for  $i = 1$  to  $n - 3$  do  
 $m[i, i + 3] = \infty$  (1)  
 for  $k = i$  to  $i + 2$  do

$$c[i, i - 1] \leftarrow 0$$

$$c[i, i] \leftarrow p[i]$$

$$R[i, j] \leftarrow i$$

$$PS[1] \leftarrow p[1] \Leftarrow PS[i] \rightarrow \text{prefix-sum } (i) : \text{Sum of all } p[j] \text{ values for } j \leq i$$

for  $i \leftarrow 2$  to  $n$  do

$$PS[i] \leftarrow p[i] + PS[i - 1] \Leftarrow \text{compute the prefix sum}$$

for  $d \leftarrow 1$  to  $n - 1$  do  $\Leftarrow$  BSTs with  $d + 1$  consecutive keys

for  $i \leftarrow 1$  to  $n - d$  do

$$j \leftarrow i + d$$

$$c[i, j] \leftarrow \infty$$

for  $r \leftarrow i$  to  $j$  do

$$q \leftarrow \min\{c[i, r - 1] + c[r + 1, j]\} + PS[j] - PS[i - 1]$$

if  $q < c[i, j]$  then

$$c[i, j] \leftarrow q$$

**TODO UPDATE CONTENT FOR YOUR COURSE NOTES**

## References

- <https://avesis.erdogan.edu.tr/ugur.coruh>
- <https://www.linkedin.com/in/ugurcoruh/>
- <https://www.hindawi.com/journals/scn/2018/6563089/>
- <https://dl.acm.org/doi/abs/10.1145/3410352.3410836>
- <https://www.sciencedirect.com/science/article/abs/pii/S2214212621002623>

*End – Of – Week – 1 – Module*