

Sample Course Name

# Sample Course Name

Week-12 (Sample Course Module Name)

Spring Semester, 20XX-20XX

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## Outline

- Sample Outline
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# 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?**

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,



## Sample Images-2

- **What is Lorem Ipsum?**  
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## Sample Images-3

- **What is Lorem Ipsum?**  
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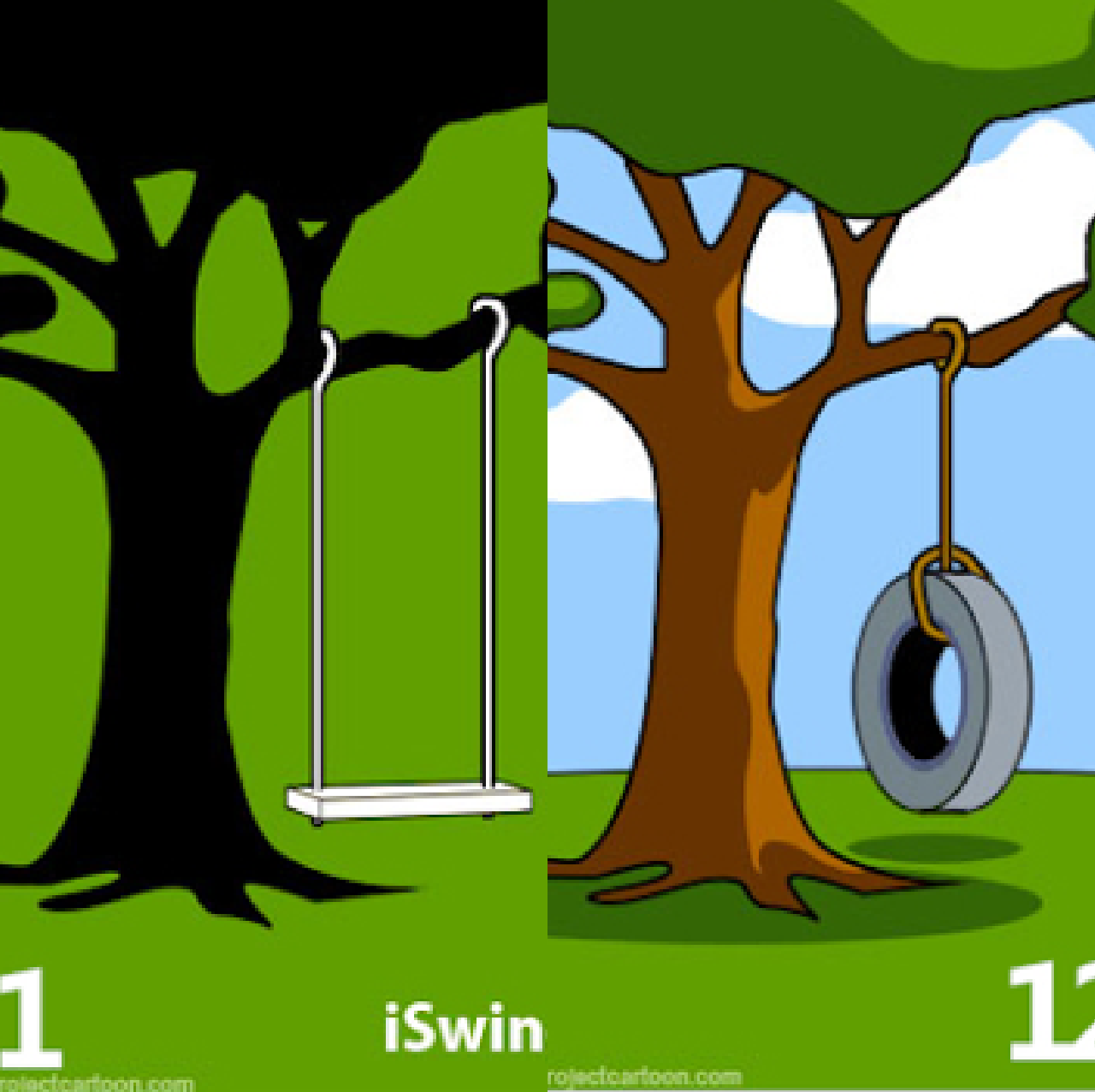
## Sample Images-4

- **What is Lorem Ipsum?**

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## Sample Images-5

- **What is Lorem Ipsum?**  
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What marketing advertisements that the customer really needed



## Sample Images-6

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# Latex Sample-1

$$\underbrace{\left\{ \begin{array}{l} \text{compute } m[i, i + 1] \\ m[1, 2], m[2, 3], \dots, m[n - 1, n] \end{array} \right\}}_{(n-1) \text{ values}} \left\{ \begin{array}{l} \ell = 2 \\ \text{for } i = 1 \text{ to } n - 1 \text{ do} \\ \quad m[i, i + 1] = \infty \quad (1) \\ \quad \text{for } k = i \text{ to } i \text{ do} \\ \quad \quad \vdots \end{array} \right.$$

$$\underbrace{\left\{ \begin{array}{l} \text{compute } m[i, i + 2] \\ m[1, 3], m[2, 4], \dots, m[n - 2, n] \end{array} \right\}}_{(n-2) \text{ values}} \left\{ \begin{array}{l} \ell = 3 \\ \text{for } i = 1 \text{ to } n - 2 \text{ do} \\ \quad m[i, i + 2] = \infty \quad (1) \\ \quad \text{for } k = i \text{ to } i + 1 \text{ do} \\ \quad \quad \vdots \end{array} \right.$$

$$\underbrace{\left\{ \begin{array}{l} \text{compute } m[i, i + 3] \\ m[1, 4], m[2, 5], \dots, m[n - 3, n] \end{array} \right\}}_{(n-3) \text{ values}} \left\{ \begin{array}{l} \ell = 4 \\ \text{for } i = 1 \text{ to } n - 3 \text{ do} \\ \quad m[i, i + 3] = \infty \quad (1) \\ \quad \text{for } k = i \text{ to } i + 2 \text{ do} \\ \quad \quad \vdots \end{array} \right.$$

# Latex Sample-2

OPTIMAL-BST-COST( $p, n$ )

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

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

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

$R[i, j] \leftarrow i$

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

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

$PS[i] \leftarrow p[i] + PS[i - 1] \Leftarrow$  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

$c[i, j] \leftarrow q$

$R[i, j] \leftarrow r$

return  $c[1, n], R$

**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*