Algorithms And Programming I

Week-2 (Sample Course Module Name)

Spring Semester, 2022-2023

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Outline

- Sample Outline
- Sample Outline
- Sample Outline



Lorem Ipsum



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.



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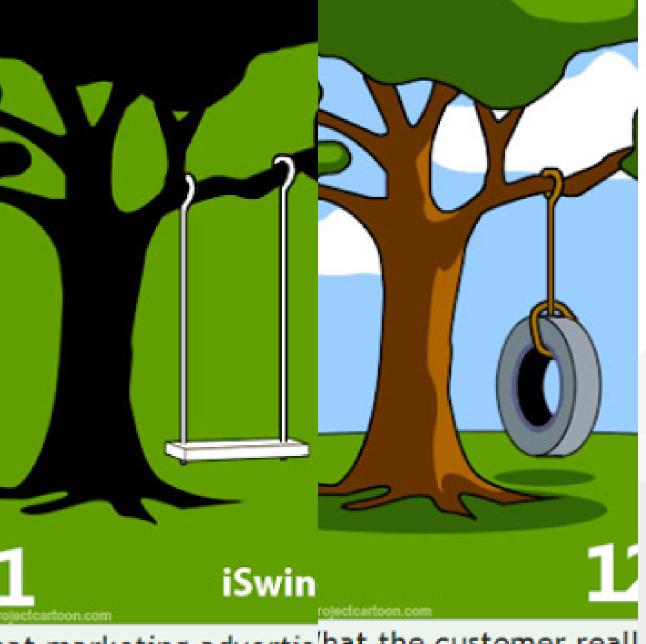
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What marketing advertised





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nat marketing advertis/hat the customer reall needed







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Sample Course Name

compute
$$m[i, i+1]$$

compute m[i, i+3]

$$\{m[1,2],m[2,3],\ldots,m[n-1,n]\}$$

(n-1) values

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

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

 $\{m[1,4],m[2,5],\ldots,m[n-3,n]\}$

(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

Sample Course
$$c[i,i-1] \leftarrow 0$$
 $c[i,i] \leftarrow p[i]$ $R[i,j] \leftarrow i$

 $PS[1] \leftarrow p[1] \Longleftarrow PS[i] \rightarrow \text{prefix-sum } (i): \text{Sum of all } p[j] \text{ values for } j \leq i$ for $i \leftarrow 2 \text{ to } n \text{ do}$

 $PS[i] \leftarrow p[i] + PS[i-1] \Longleftarrow$ compute the prefix sum for $d \leftarrow 1$ to n-1 do \Longleftarrow 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

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



 $\inf_{i \ge 0.04 \; ext{Week-2}} q < c[i,j] \; ext{then}$

TODO UPDATE CONTENT FOR YOUR COURSE NOTES



References

- https://avesis.erdogan.edu.tr/ugur.coruh
- https://www.linkedin.com/in/ugurcoruh/
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Sample Course Name

$$End-Of-Week-2-Module$$

