

for loop
do..while loop
Nested loop
User defined functions

Title

Monday, May 15, 2023

7:41 AM

Formulas & Theorems Covered Today:



Homework:



Lecture Topic:

During the lecture, take notes here.

Summary

After the lecture, summarize the main points of this lecture topic.

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```

→ for(r=1; r<=5 ; r++)
{
    for(c=1; c<=r; c++)
    {
        printf("%2c", 64+c);
    }
    printf("\n");
}

```

$r=1$

$1 \leq 5$

$c=1$

$1 \leq 1$

pf(A)

c

$c=2$

$2 \leq 1$

=

$r=2$

$2 \leq 5$

$c=1$

$1 \leq 2$

pf(A)

$c=2$

$2 \leq 2$

pf(B)

$c=3$

~~$3 \leq 2$~~

A

A B

A B C

$r=3$

$3 \leq 5$

$c=1$

$1 \leq 3$

pf(A)

$c=2$

$2 \leq 3$

pf(B)

$c=3$

$3 \leq 3$

pf(C)

$c=4$

~~$4 \leq 3$~~

space = 10
8

```

for(r=1; r<=5 ; r++)
{
    for(c=1; c<=space; c++)
    {
        printf(" ");
    }
    space=space-2;
    for(c=r; c>=1; c--)
    {
        printf("%2c", 64+c);
    }
    for(c=1; c<=r; c++)
    {
        printf("%2c", 64+c);
    }
    printf("\n");
}

```

$r=1$ $1 \leq 5$
 $c=1$ $1 \leq 10$
 $c=11$ $11 \leq 10$

$c=1$ $1 > 1$
 pf(A)

$c=0$ $0 > 1$

$c=1$ $1 \leq 1$ pf(A)

$c=2$ $2 \leq 1$

$r=2$

$2 \leq 5$

```

      A
    B A
  C B A
D C B A
E D C B A

      A
    A B
  A B C
A B C D
A B C D E

```

A.

B.

