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11. 11- loop_ex11.c

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<pre>#include <stdio.h> int main() { int n; char c; printf("Input Num : "); scanf("%d", &n); printf("Input Character : "); scanf(" %c", &c); for (int i=1;i<=n;i++) { for (int j=1;j<=i;j++) { printf("%c",c); } printf("\n"); } }</pre>	<pre>Input Num : 3 Input Character : % % %% %%%</pre>

12. 12- loop_ex12.c

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<pre>#include <stdio.h> int main() { int w, h; printf("Input width : "); scanf("%d", &w); printf("Input height : "); scanf("%d", &h); for (int i=1;i<=h;i++) { for (int j=1;j<=w;j++) { printf("*"); } printf("\n"); } }</pre>	<pre>Input width : 7 Input height : 3 ***** ***** *****</pre>

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<pre>} }</pre>	
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13. 13-loop_ex13.c

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<pre>#include <stdio.h> int main() { int w, h,n; printf("Input width : "); scanf("%d", &w); printf("Input height : "); scanf("%d", &h); printf("Input number : "); scanf("%d", &n); for (int i=1;i<=h;i++) { for (int j=1;j<=n;j++) { for (int k=1;k<=w;k++) { printf("*"); } printf("\t"); } printf("\n"); } }</pre>	<pre>Input width : 7 Input height : 3 Input number : 3 ***** ***** *****</pre>

14. 14-loop_ex14.c

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<pre>#include <stdio.h> int main() { char c;</pre>	<pre>Input Lowercase Alphabetic Char : d abcd abc ab</pre>

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<pre>printf("Input Lowercase Alphabetic Char : "); scanf("%c", &c); for (int i=c-'a';i>=0;i--) { for (int j=0;j<=i;j++) { printf("%c",j+'a'); } printf("\n"); } }</pre>	a
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15. 15- loop_ex15.c

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<pre>#include <stdio.h> int main() { char c; printf("Input Lowercase Alphabetic Char : "); scanf("%c", &c); for (int i = 0; i <= c-'a'; i++) { for (int j = 0; j < c-'a' - i; j++) { printf(" "); } for (char j = c - i; j <= c; j++) { printf("%c", j); } printf("\n"); } }</pre>	Input Lowercase Alphabetic Char : d d cd bcd abcd

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:      :
[      ]

-      /      : rand() / stdlib.h
-      seed    /      : srand() / stdlib.h
-      seed    /      : time(NULL) / time.h
-

```

1 10

```
(rand() % 10) + 1;
```

1 100

```
(rand() % 100) + 1;
```

25 30

```
(rand() % 6) + 25;
```

33 47

```
(rand() % 15) + 33;
```

16. 16-loop_ex16.c

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```

#include <stdio.h>
#include <stdlib.h>
#include <time.h>

int main() {
    srand(time(NULL));
    int r = rand() % 100 + 1;
    int input;
    printf("1~100          .\n( 8 )")
    \n");
    for (int i = 0; i < 8; i++)
    {
        printf("      : ");
        scanf("%d", &input);
        if (input == r)

```

```

1~100          .
( 8 )          .
: 50           .
>>            .
: 20           .
>>            .
: 10           .
>>            .
: 15           .
>>            .
: 16           .
>> .5          .

```

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```
{
    printf(">>      . %d\n", i + 1);
    return 0;
}
else if (input < r)
{
    printf(">>      .\n");
}
else
{
    printf(">>      .\n");
}
}
printf("      . %d\n", r);
return 0;
}
```

17. 7-loop_ex17.c

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```
#include <stdio.h>
#include <stdlib.h>
#include <time.h>

int main()
{
    int yut_sum = 0;
    printf("      , !\n");
    srand(time(NULL));

    for (int i = 0; i < 4; i++)
```

```
0 1 1 0
!
```

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```
{
    int yut = rand() % 2;
    yut_sum += yut;
    printf("%d ", yut);
}
printf("\n\n");
switch (yut_sum) {
    case 0:
        printf(" !");
        break;
    case 1:
        printf(" !");
        break;
    case 2:
        printf(" !");
        break;
    case 3:
        printf(" !");
        break;
    case 4:
        printf(" !");
        break;
}
printf("\n");

return 0;
}
```

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[III- 4. ()]-p.117

```
#include <stdio.h>

int main()
{
    int room1_temp = 21, room2_temp
= 32, room3_temp = 18, room4_temp
= 20, room5_temp = 30;
    int room1_heating = 1,
room2_heating = 0, room3_heating =
0, room4_heating = 0,
room5_heating = 1;

    int count = 0;

    if (22 > room1_temp &&
room1_heating == 0) {
        count++;
    }
    if (22 > room2_temp &&
room2_heating == 0) {
        count++;
    }
    if (22 > room3_temp &&
room3_heating == 0) {
        count++;
    }
    if (22 > room4_temp &&
room4_heating == 0) {
        count++;
    }
    if (22 > room5_temp &&
room5_heating == 0) {
        count++;
    }

    printf(" : %
```

: 2

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```
d\n", count);  
    return 0;  
}
```

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1번 좌석	2번 좌석	3번 좌석	4번 좌석	5번 좌석
예약 가능	예약 완료	예약 가능	예약 가능	예약 완료

실행 결과

예약하실 인원은 총 몇 명인가요?(최대 3명) : 2

1 3 4 번 예약 가능

예약하실 번호를 입력하시오.:3

3번 예약이 완료되었습니다.

예약하실 번호를 입력하시오.:4

4번 예약이 완료되었습니다.

```
#include <stdio.h>

int main()
{
    int seat_1 = 1; // 0
    int seat_2 = 0; // X
    int seat_3 = 1; // 0
    int seat_4 = 1; // 0
    int seat_5 = 0; // X
    int num;
    printf("          ?( 3 ) : ");
    scanf("%d", &num);
    if (num > 3) return 1;
    printf("1 3 4      \n");

    for (int i = 0; i < num; i++)
    {
        int seat_num;
        printf("          .:");
        scanf("%d", &seat_num);

        if (seat_num == 1 ||
            seat_num == 3 || seat_num == 4)
```

```
          ?( 3 ) : 2
1 3 4
          .:3
3
          .
          .:4
4
          .
```

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```
        {
            printf("%d\n", seat_num);
        }
        else
        {
            printf("%d\n", seat_num);
        }

    }

    return 0;
}
```