

Formatlı giriş/çıkış fonk.



Gömülü Sistemler Laboratuvarı

Yazdırma sınırlaması



Yazdırma sınırlaması

```
#include <stdio.h>
int main() {
    int a = 50;
    float b = 99.9558;
    char c[] = "deneme";

    printf("%10d\n", a);
    printf("%10f\n", b);
    printf("%10s\n", c);
}
```

Yazdırma sınırlaması

```
#include <stdio.h>
int main() {
    int a = 50;
    int b = 150;

    printf("%06d\n", a);
    printf("%06d\n", b);
}
```

Sonrası Öncesi Problemi

Önce

Sonra



Sonrası Öncesi Problemi

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

```
int main() {
```

```
    float b = 99.9558;
```

```
    // virgulden sonraki basamak sayisi
```

```
    printf("%.4f\n", b);
```

```
    printf("%.2f\n", b);
```

```
    printf("%10.3f\n", b);
```

```
}
```

Formatlı Yazdırma

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

```
int main() {
```

```
    char c[] = "deneme";
```

```
    printf("0:%s\n", c); // Normal
```

```
    printf("1:%10s\n", c); // 10 karakterlik alan saga dayali
```

```
    printf("2:%.3s\n", c); // ilk 3 karakter
```

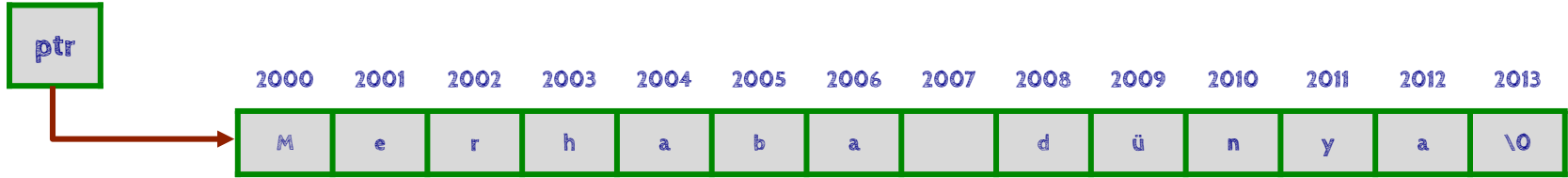
```
    printf("3:%-10s\n", c); // 10 karakterlik alan sola dayali
```

```
    printf("4:%10.3s\n", c); // 10 karakterlik alan ilk 3 karakter
```

```
    printf("5:%.3s\n", c+2); // [2,5] arasi karakteri yazdir
```

```
}
```

String Yazdırma



String'e Yazdırma

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

```
int main() {
```

```
    int a = 50;
```

```
    float b = 99.9558;
```

```
    /***** stringe yazdirma *****/
```

```
    char s1[30];
```

```
    sprintf(s1, "sprintf ornek. %d %.2f", a, b);
```

```
    printf("%s\n", s1);
```

```
}
```

String'den Okuma

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

```
int main() {
```

```
    /***** string'den okuma *****/
```

```
    char s2[] = "aaa 10 7.5";
```

```
    printf("s2: %s\n", s2);
```

```
    char x[20];
```

```
    int y;
```

```
    float z;
```

```
    sscanf(s2, "%s %d %f", x, &y, &z);
```

```
    printf("x: %s\n", x);
```

```
    printf("y: %d\n", y);
```

```
    printf("z: %f\n", z);
```

```
}
```

ard arda okuma

```
#include <stdio.h>
#include <stdlib.h>
int main()
{
    char basharf;
    char ad[10];
    char soyad[10];
    char ad_soyad[10];
    printf("Ad Soyad: ");
    scanf("%9s", ad_soyad);
    while (getchar() != '\n') /* enter'a gelene kadar oku, ve islem yapmadan karakteri atla */;
    printf("Ad: ");
    scanf("%9s", ad); // max 9 harfli kelime oku
    while (getchar() != '\n') /* enter'a gelene kadar oku, ve islem yapmadan karakteri atla */;
    printf("Soyad: ");
    scanf("%9s", soyad); // max 9 harfli kelime oku
    while (getchar() != '\n'); /// enter'a kadar girilen karakterleri atla
    printf("İsminizin Baş Harfi: ");
    scanf("%c", &basharf); // harf oku
    while (getchar() != '\n'); /// enter'a kadar girilen karakterleri atla
    printf("\n\n");
    printf("Adınız Soyadınız : !%s!\n", ad_soyad);
    printf("Adınız : !%s!\n", ad);
    printf("Soyadınız : !%s!\n", soyad);
    printf("İsminizin Baş Harfi : !%c!\n", basharf);
    return 0;
}
```

Tablo Yazdırma

*/***

asagidaki tabloyu ekrana yazdiran program

| A 65 | a 97 |

| B 66 | b 98 |

| C 67 | c 99 |

...

| Y 89 | y 121 |

| Z 90 | z 122 |

**/*

Tablo Yazdırma

Decimal	Hex	Char	Decimal	Hex	Char	Decimal	Hex	Char	Decimal	Hex	Char
0	0	[NULL]	32	20	[SPACE]	64	40	@	96	60	`
1	1	[START OF HEADING]	33	21	!	65	41	A	97	61	a
2	2	[START OF TEXT]	34	22	"	66	42	B	98	62	b
3	3	[END OF TEXT]	35	23	#	67	43	C	99	63	c
4	4	[END OF TRANSMISSION]	36	24	\$	68	44	D	100	64	d
5	5	[ENQUIRY]	37	25	%	69	45	E	101	65	e
6	6	[ACKNOWLEDGE]	38	26	&	70	46	F	102	66	f
7	7	[BELL]	39	27	'	71	47	G	103	67	g
8	8	[BACKSPACE]	40	28	(	72	48	H	104	68	h
9	9	[HORIZONTAL TAB]	41	29	)	73	49	I	105	69	i
10	A	[LINE FEED]	42	2A	*	74	4A	J	106	6A	j
11	B	[VERTICAL TAB]	43	2B	+	75	4B	K	107	6B	k
12	C	[FORM FEED]	44	2C	,	76	4C	L	108	6C	l
13	D	[CARRIAGE RETURN]	45	2D	-	77	4D	M	109	6D	m
14	E	[SHIFT OUT]	46	2E	.	78	4E	N	110	6E	n
15	F	[SHIFT IN]	47	2F	/	79	4F	O	111	6F	o
16	10	[DATA LINK ESCAPE]	48	30	0	80	50	P	112	70	p
17	11	[DEVICE CONTROL 1]	49	31	1	81	51	Q	113	71	q
18	12	[DEVICE CONTROL 2]	50	32	2	82	52	R	114	72	r
19	13	[DEVICE CONTROL 3]	51	33	3	83	53	S	115	73	s
20	14	[DEVICE CONTROL 4]	52	34	4	84	54	T	116	74	t
21	15	[NEGATIVE ACKNOWLEDGE]	53	35	5	85	55	U	117	75	u
22	16	[SYNCHRONOUS IDLE]	54	36	6	86	56	V	118	76	v
23	17	[ENG OF TRANS. BLOCK]	55	37	7	87	57	W	119	77	w
24	18	[CANCEL]	56	38	8	88	58	X	120	78	x
25	19	[END OF MEDIUM]	57	39	9	89	59	Y	121	79	y
26	1A	[SUBSTITUTE]	58	3A	:	90	5A	Z	122	7A	z
27	1B	[ESCAPE]	59	3B	;	91	5B	[	123	7B	{
28	1C	[FILE SEPARATOR]	60	3C	<	92	5C	\	124	7C	|
29	1D	[GROUP SEPARATOR]	61	3D	=	93	5D	]	125	7D	}
30	1E	[RECORD SEPARATOR]	62	3E	>	94	5E	^	126	7E	~
31	1F	[UNIT SEPARATOR]	63	3F	?	95	5F	_	127	7F	[DEL]

Tablo Yazdırma

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

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

```
int main() {
```

```
    int i;
```

```
    for (i = 65 ; i <= 90 ; i++) {
```

```
        printf("|%c\n", i);
```

```
    }
```

```
    return 0;
```

```
}
```

Tablo Yazdırma

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

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

```
int main() {
```

```
    int i;
```

```
    for (i = 'A' ; i <= 'Z' ; i++) {
```

```
        printf("|%c\n", i);
```

```
    }
```

```
    return 0;
```

```
}
```

Tablo Yazdırma

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

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

```
int main() {
```

```
    int i;
```

```
    for (i = 'A' ; i <= 'Z' ; i++) {
```

```
        printf("|%c %d\\n", i,i);
```

```
    }
```

```
    return 0;
```

```
}
```


Tablo Yazdırma

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

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

```
int main() {
```

```
    int i;
```

```
    for (i = 'A' ; i <= 'Z' ; i++) {
```

```
        printf("|%c %d|%c %d\n", i,i, i+32, i+32);
```

```
    }
```

```
    return 0;
```

```
}
```

Tablo Yazdırma

*/***

asagidaki tabloyu ekrana yazdiran program

| A 65 | a 97 |

| B 66 | b 98 |

| C 67 | c 99 |

...

| Y 89 | y 121 |

| Z 90 | z 122 |

**/*

Tablo Yazdırma

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

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

```
int main() {
```

```
    int i;
```

```
    for (i = 'A' ; i <= 'Z' ; i++) {
```

```
        printf("|%-1c %d|%-1c %d\n", i, i, i+32, i+32);
```

```
    }
```

```
    return 0;
```

```
}
```

Tablo Yazdırma

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

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

```
int main() {
```

```
    int i;
```

```
    for (i = 'A' ; i <= 'Z' ; i++) {
```

```
        printf("| %-3c %-4d| %-3c %-4d\n", i, i, i+32, i+32);
```

```
    }
```

```
    return 0;
```

```
}
```

Tablo Yazdırma

Decimal	Hex	Char	Decimal	Hex	Char	Decimal	Hex	Char	Decimal	Hex	Char
0	0	[NULL]	32	20	[SPACE]	64	40	@	96	60	`
1	1	[START OF HEADING]	33	21	!	65	41	A	97	61	a
2	2	[START OF TEXT]	34	22	"	66	42	B	98	62	b
3	3	[END OF TEXT]	35	23	#	67	43	C	99	63	c
4	4	[END OF TRANSMISSION]	36	24	\$	68	44	D	100	64	d
5	5	[ENQUIRY]	37	25	%	69	45	E	101	65	e
6	6	[ACKNOWLEDGE]	38	26	&	70	46	F	102	66	f
7	7	[BELL]	39	27	'	71	47	G	103	67	g
8	8	[BACKSPACE]	40	28	(72	48	H	104	68	h
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12	C	[FORM FEED]	44	2C	,	76	4C	L	108	6C	l
13	D	[CARRIAGE RETURN]	45	2D	-	77	4D	M	109	6D	m
14	E	[SHIFT OUT]	46	2E	.	78	4E	N	110	6E	n
15	F	[SHIFT IN]	47	2F	/	79	4F	O	111	6F	o
16	10	[DATA LINK ESCAPE]	48	30	0	80	50	P	112	70	p
17	11	[DEVICE CONTROL 1]	49	31	1	81	51	Q	113	71	q
18	12	[DEVICE CONTROL 2]	50	32	2	82	52	R	114	72	r
19	13	[DEVICE CONTROL 3]	51	33	3	83	53	S	115	73	s
20	14	[DEVICE CONTROL 4]	52	34	4	84	54	T	116	74	t
21	15	[NEGATIVE ACKNOWLEDGE]	53	35	5	85	55	U	117	75	u
22	16	[SYNCHRONOUS IDLE]	54	36	6	86	56	V	118	76	v
23	17	[ENG OF TRANS. BLOCK]	55	37	7	87	57	W	119	77	w
24	18	[CANCEL]	56	38	8	88	58	X	120	78	x
25	19	[END OF MEDIUM]	57	39	9	89	59	Y	121	79	y
26	1A	[SUBSTITUTE]	58	3A	:	90	5A	Z	122	7A	z
27	1B	[ESCAPE]	59	3B	;	91	5B	[	123	7B	{
28	1C	[FILE SEPARATOR]	60	3C	<	92	5C	\	124	7C	|
29	1D	[GROUP SEPARATOR]	61	3D	=	93	5D	]	125	7D	}
30	1E	[RECORD SEPARATOR]	62	3E	>	94	5E	^	126	7E	~
31	1F	[UNIT SEPARATOR]	63	3F	?	95	5F	_	127	7F	[DEL]

Tablo Yazdırma

/**

asagidaki tabloyu ekrana yazdiran program

|	0	|	32	|	@	64	|	`	96	|	
|	1	|	!	33	|	A	65	|	a	97	|
|	2	|	"	34	|	B	66	|	b	98	|
|	3	|	#	35	|	C	67	|	c	99	|

...

|	26	|	:	58	|	Z	90	|	z	122	|
|	27	|	;	59	|	[	91	|	{	123	|
|	28	|	<	60	|	\	92	|	|	124	|
|	29	|	=	61	|	]	93	|	}	125	|
|	30	|	>	62	|	^	94	|	~	126	|
|	31	|	?	63	|	_	95	|		127	|

*/

Tablo Yazdırma

```
#include <stdio.h>
#include <stdlib.h>
int main() {
    int i;
    for (i = 0 ; i < 32 ; i++) {
        char a = i; // 1. sutundaki karakter
        if (!isprint(a))
            a = ' '; // ekrana yazdirilabilir karakter degilse bosluk ata
        char b = i+32; // 2. sutundaki karakter
        if (!isprint(b))
            b = ' ';
        char c = i+64; // 3. sutundaki karakter
        if (!isprint(c))
            c = ' ';
        char d = i+96; // 4. sutundaki karakter
        if (!isprint(d))
            d = ' ';
        printf("| %-3c %-4d| %-3c %-4d| %-3c %-4d| %-3c %-4d|\n", a, i, b, i+32, c, i+64, d, i+96);
    }

    return 0;
}
```

Sorular

