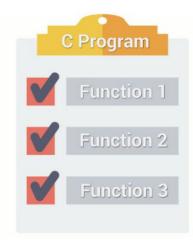
FONKS VONLAR





Suhap SAHIN Onur GOK

```
int main() {
  int a, b;
  printf("iki sayi girin: ");;
  scanf("%d %d", &a, &b);

return 0;
}
```

```
int main() {
  int a, b;
  printf("iki sayi girin: ");;
  scanf("%d %d", &a, &b);
  printf("sayilardan kucuk olan: %d\n", min(a, b));
  printf("sayilardan buyuk olan: %d\n", max(a, b));
  return 0;
}
```

#include <stdio.h> int may(int s1, int s2):

```
int max(int s1, int s2);
int min(int s1, int s2);
int main() {
   int a, b;
   printf("iki sayi girin: ");;
   scanf("%d %d", &a, &b);
   printf("sayilardan kucuk olan: %d\n", min(a, b));
   printf("sayilardan buyuk olan: %d\n", max(a, b));
   return 0;
}
```

#include <stdio.h> #int may(int s1, int s2):

```
int max(int s1, int s2);
int min(int s1, int s2);
int main() {
  int a, b;
  printf("iki sayi girin: ");;
  scanf("%d %d", &a, &b);
  printf("sayilardan kucuk olan: %d\n", min(a, b));
  printf("sayilardan buyuk olan: %d\n", max(a, b));
  return 0;
int max(int s1, int s2) {
  if (s1 > s2)
     return s1;
  else
     return s2;
```

```
onksiyon prototipi
#include <stdio.h>
int max(int s1, int s2);
int min(int s1, int s2);
int main() {
  int a, b;
  printf("iki sayi girin: ");;
  scanf("%d %d", &a, &b);
  printf("sayilardan kucuk olan: %d\n", min(a, b));
  printf("sayilardan buyuk olan: %d\n", max(a, b));
  return 0;
int max(int s1, int s2) {
  if (s1 > s2)
    return s1;
  else
    return s2;
int min(int s1, int s2) {
  if (s1 < s2)
    return s1;
  else
    return s2;
```

Palinoronik Saylar

Paindromik Saylar

```
int main() {
  int sayi;
  printf("sayi girin:");
  scanf("%d", &sayi);

return 0;
}
```







Palloronik Saylar

```
#include <stdio.h>
int tersini_bul(int x);
int main() {
  int sayi;
  printf("sayi girin:");
  scanf("%d", &sayi);
  return 0;
```

Paindromik Saylar

```
#include <stdio.h>
int tersini_bul(int x);
int main() {
   int sayi;
   printf("sayi girin:");
   scanf("%d", &sayi);
   if (sayi == tersini_bul(sayi))
        printf("sayi palindromik sayidir");
   else
        printf("degildir");
   return 0;
}
```









Palhoronik Saylar

```
#include <stdio.h>
int tersini_bul(int x);
int main() {
  int sayi;
  printf("sayi girin:");
  scanf("%d", &sayi);
  if (sayi == tersini_bul(sayi))
     printf("sayi palindromik sayidir");
  else
     printf("degildir");
  return 0;
int tersini_bul(int x) {
```









Palnoronik Saylar

S = 0

x = 123

```
int tersini_bul(int x) {
  int S = 0;
```

painoromik saylar

S = 0

x = 123

p = 0

```
int tersini_bul(int x) {
  int S = 0;

int b = x % 10;
```

b = 123 % 10

Painoromik Saylar

```
int tersini_bul(int x) {
  int S = 0;

int b = x % 10;
  S = (S * 10) + b;
```

```
S = 0 x = 123 b = 0
b = 123 \% 10
S = 0 x = 123 b = 3
```

S = 0 * 10 + 3

Palinoromik Saylar

```
int tersini bul(int x) {
  int S = 0;
     int b = x \% 10;
     S = (S * 10) + b;
     x /= 10;
```

$$S = 0$$
 $x = 123$ $b = 0$

$$S = 0$$
 $x = 123$ $b = 3$

$$S = 0 * 10 + 3$$

$$S = 3$$
 $x = 123$ $b = 3$

$$x /= 10$$

$$S = 3$$
 $x = 12$ $b = 3$

Painoromik Saylar

```
int tersini bul(int x) {
                                                 b = 12 % 10
  int S = 0;
     int b = x \% 10;
     S = (S * 10) + b;
                                                S = 3 * 10 + 3
     x /= 10;
  return S;
                                                     x /= 10
```

Palindromik Saylar

```
int tersini bul(int x) {
  int S = 0;
  while (x > 0) {
     int b = x \% 10;
     S = (S * 10) + b;
     x /= 10;
  return S;
```

$$S = 32$$
 $x = 1$ $b = 2$

$$b = 1 \% 10$$

$$S = 32$$
 $x = 1$ $b = 1$

$$S = 32 * 10 + 1$$

$$S = 321$$
 $x = 1$ $b = 1$ $x = 1$

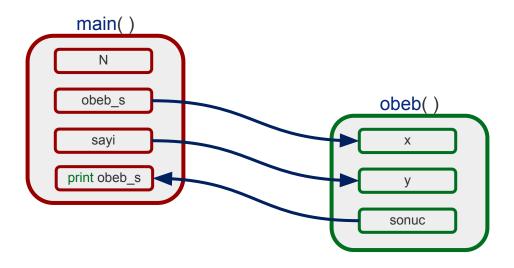
$$S = 321$$
 $x = 0.1$ $b = 1$





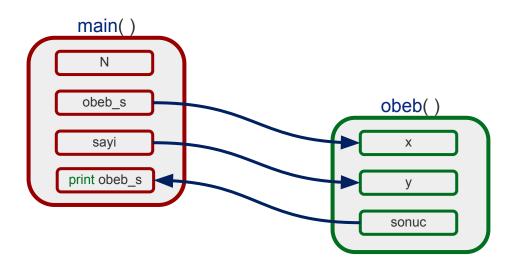
```
int main() {
   int N, i;
   int obeb_s; // ebob isleminin sonucu
   printf("kac sayi gireceksiniz: ");
   scanf("%d", &N);
```

1



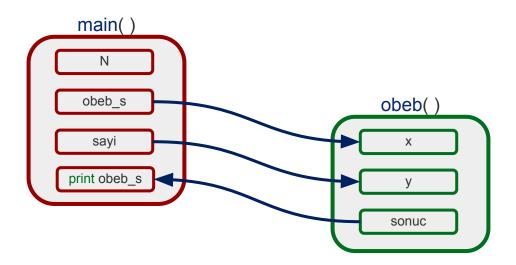


```
int main() {
    int N, i;
    int obeb_s; // ebob isleminin sonucu
    printf("kac sayi gireceksiniz: ");
    scanf("%d", &N);
    obeb_s = sayi_oku();
    printf("yeni obeb: %d\n", obeb_s);
```



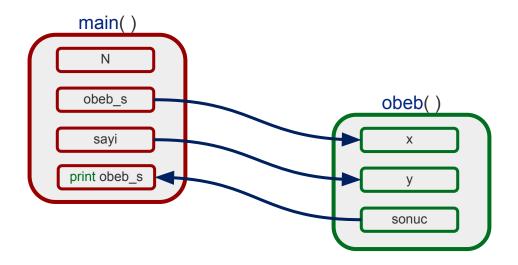


```
int main() {
    int N, i;
    int obeb_s; // ebob isleminin sonucu
    printf("kac sayi gireceksiniz: ");
    scanf("%d", &N);
    obeb_s = sayi_oku();
    printf("yeni obeb: %d\n", obeb_s);
    for (i = 2; i <= N; i++) {
        int sayi = sayi_oku();
    }
}</pre>
```



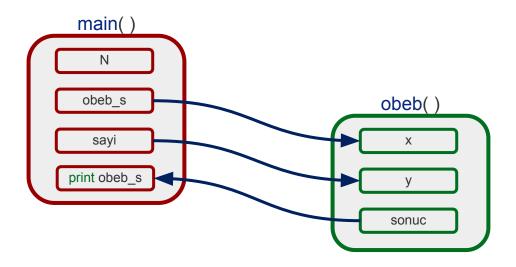


```
int main() {
  int N, i;
  int obeb_s; // ebob isleminin sonucu
  printf("kac sayi gireceksiniz: ");
  scanf("%d", &N);
  obeb_s = sayi_oku();
  printf("yeni obeb: %d\n", obeb_s);
  for (i = 2; i <= N; i++) {
    int sayi = sayi_oku();
    obeb_s = obeb(obeb_s, sayi);
    printf("yeni obeb: %d\n", obeb_s);
  }
}</pre>
```

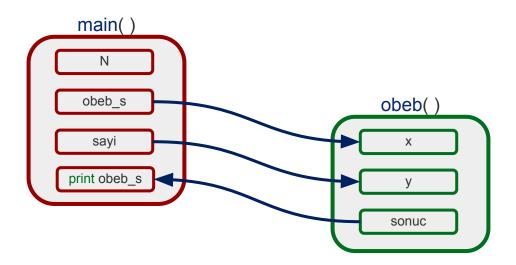




```
int main() {
    int N, i;
    int obeb_s; // ebob isleminin sonucu
    printf("kac sayi gireceksiniz: ");
    scanf("%d", &N);
    obeb_s = sayi_oku();
    printf("yeni obeb: %d\n", obeb_s);
    for (i = 2; i <= N; i++) {
        int sayi = sayi_oku();
        obeb_s = obeb(obeb_s, sayi);
        printf("yeni obeb: %d\n", obeb_s);
    }
    printf("sonuc: %d\n", obeb_s);
    return 0;
}</pre>
```

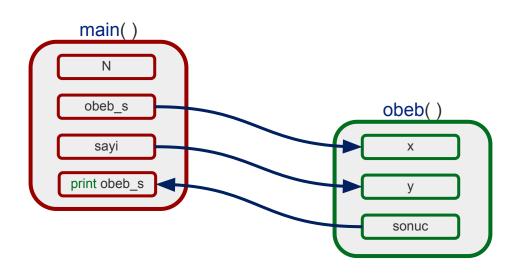


```
#include <stdio.h>
int obeb(int x, int y);
int sayi_oku();
int main() {
  int N, i;
  int obeb s; // ebob isleminin sonucu
  printf("kac sayi gireceksiniz: ");
  scanf("%d", &N);
  obeb_s = sayi_oku();
  printf("yeni obeb: %d\n", obeb s);
  for (i = 2; i \le N; i++) {
     int sayi = sayi oku();
     obeb s = obeb(obeb s, sayi);
     printf("yeni obeb: %d\n", obeb_s);
  printf("sonuc: %d\n", obeb_s);
  return 0;
```





```
#include <stdio.h>
int obeb(int x, int y);
int sayi_oku();
int main() {
  int N, i;
  int obeb s; // ebob isleminin sonucu
  printf("kac sayi gireceksiniz: ");
  scanf("%d", &N);
  obeb_s = sayi_oku();
  printf("yeni obeb: %d\n", obeb s);
  for (i = 2; i \le N; i++) {
     int sayi = sayi oku();
     obeb s = obeb(obeb s, sayi);
     printf("yeni obeb: %d\n", obeb_s);
  printf("sonuc: %d\n", obeb_s);
  return 0;
int sayi_oku() {
int obeb(int x, int y) {
```



```
int sayi_oku() {
   int x;
   printf("sayi girin: ");
   scanf("%d", &x);
   return x;
}
```

```
int sayi_oku() {
  int x;
  printf("sayi girin: ");
  scanf("%d", &x);
  return x;
int obeb(int x, int y) {
  int i;
  int sonuc = 1;
  return sonuc;
```

```
x = 6
```

```
y = 9
```

sonuc = 1

```
int sayi_oku() {
  int x;
  printf("sayi girin: ");
  scanf("%d", &x);
  return x;
int obeb(int x, int y) {
  int i;
  int sonuc = 1;
  for (i = 2 ; i \le x \&\& i \le y ; i++) {
  return sonuc;
```

x = 6

y = 9

sonuc = 1

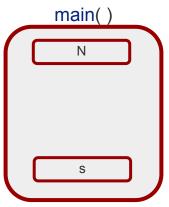
i = 2

```
int sayi_oku() {
                                                                                x = 6
                                                                                                 y = 9
                                                                                                                 sonuc = 1
   int x;
   printf("sayi girin: ");
                                                                             6 % 2 == 0
                                                                                              9 % 2 == 1
                                                              i = 2
   scanf("%d", &x);
                                                                                x = 6
                                                                                                 y = 9
                                                                                                                 sonuc = 1
   return x;
                                                              i = 3
                                                                             6 % 3 == 0
                                                                                              9 \% 3 == 0
int obeb(int x, int y) {
   int i;
                                                                                                 y = 9
                                                                                x = 6
                                                                                                                 sonuc = 3
   int sonuc = 1;
                                                                             6 % 4 == 4
                                                                                              9 % 4 == 1
                                                              i = 4
   for (i = 2 ; i \le x \&\& i \le y ; i++) \{
      if (x \% i == 0 \&\& y \% i == 0)
                                                                                                                 sonuc = 3
          sonuc = i;
                                                                             6 % 5 == 5
                                                                                              9 % 5 == 4
                                                              i = 5
   return sonuc;
                                                                                x = 6
                                                                                                                 sonuc = 3
                                                                             6 % 6 == 0
                                                                                              9 % 6 == 3
```

= 6

```
int main() {
  int N, i;
  printf("kac sayi gireceksiniz:");
  scanf("%d", &N);
  int s = sayi_oku();
```

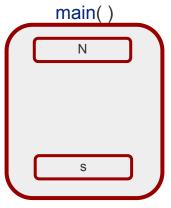
Rakam Sayısı



}

```
#include <stdio.h>
int sayi_oku();
int main() {
   int N, i;
   printf("kac sayi gireceksiniz:");
   scanf("%d", &N);
   int s = sayi_oku();
```

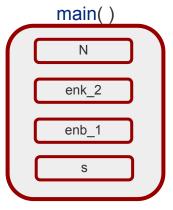
Rakam Sayısı



}

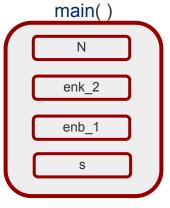
```
#include <stdio.h>
int sayi_oku();
int main() {
   int N, i;
   printf("kac sayi gireceksiniz:");
   scanf("%d", &N);
   int s = sayi_oku();
   int enk_2 = s;
   int enb_1 = s;
```

Rakam Sayısı



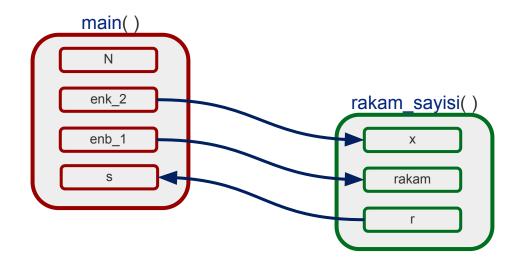
```
#include <stdio.h>
int sayi_oku();
int main() {
  int N, i;
  printf("kac sayi gireceksiniz:");
  scanf("%d", &N);
  int s = sayi_oku();
  int enk_2 = s;
  int enb_1 = s;
  for (i = 1; i < N; i++) {
     int s = sayi_oku();
```

Pakam Sayısı



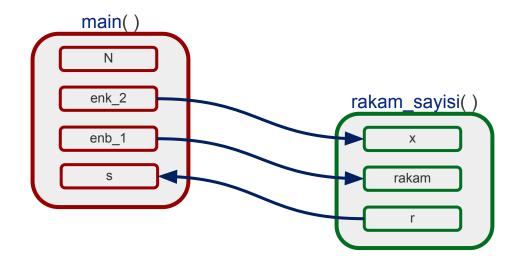
```
#include <stdio.h>
int rakam_sayisi(int x, int rakam);
int sayi_oku();
int main() {
  int N, i;
  printf("kac sayi gireceksiniz:");
  scanf("%d", &N);
  int s = sayi_oku();
  int enk_2 = s;
  int enb_1 = s;
  for (i = 1; i < N; i++) {
     int s = sayi_oku();
     if (rakam_sayisi(s, 1) > rakam_sayisi(enb_1, 1))
       enb_1 = s;
     if (rakam_sayisi(s, 2) < rakam_sayisi(enk_2, 2))</pre>
        enk_2 = s;
```

Rakam Sayısı

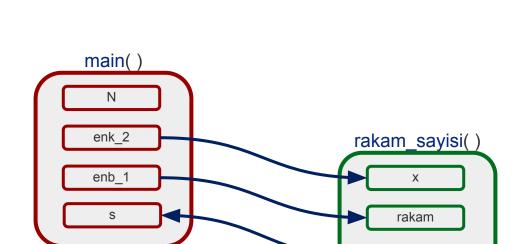


```
#include <stdio.h>
int rakam_sayisi(int x, int rakam);
int sayi_oku();
int main() {
  int N, i;
  printf("kac sayi gireceksiniz:");
  scanf("%d", &N);
  int s = sayi_oku();
  int enk_2 = s;
  int enb_1 = s;
  for (i = 1; i < N; i++) {
     int s = sayi_oku();
     if (rakam_sayisi(s, 1) > rakam_sayisi(enb_1, 1))
       enb_1 = s;
     if (rakam_sayisi(s, 2) < rakam_sayisi(enk_2, 2))</pre>
        enk_2 = s;
  printf("en fazla 1 olan: %d\n", enb_1);
  printf("en az 2 olan: %d\n", enk_2);
```

Rakam Sayısı

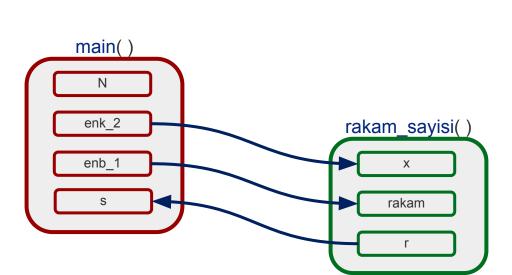


```
Rakam Sayısı
#include <stdio.h>
int rakam_sayisi(int x, int rakam);
int sayi_oku();
int main() {
  int N, i;
  printf("kac sayi gireceksiniz:");
  scanf("%d", &N);
  int s = sayi_oku();
  int enk_2 = s;
  int enb_1 = s;
  for (i = 1; i < N; i++) {
    int s = sayi_oku();
    if (rakam_sayisi(s, 1) > rakam_sayisi(enb_1, 1))
      enb_1 = s;
    if (rakam_sayisi(s, 2) < rakam_sayisi(enk_2, 2))</pre>
      enk_2 = s;
  printf("en fazla 1 olan: %d\n", enb_1);
  printf("en az 2 olan: %d\n", enk_2);
```



```
int sayi_oku() {
   int r;
   printf("sayi girin:");
   scanf("%d", &r);
   return r;
}
```

```
lakam sayısı
#include <stdio.h>
int rakam_sayisi(int x, int rakam);
int sayi_oku();
int main() {
  int N, i;
  printf("kac sayi gireceksiniz:");
  scanf("%d", &N);
  int s = sayi_oku();
  int enk_2 = s;
  int enb_1 = s;
  for (i = 1; i < N; i++) {
    int s = sayi_oku();
    if (rakam_sayisi(s, 1) > rakam_sayisi(enb_1, 1))
      enb_1 = s;
    if (rakam_sayisi(s, 2) < rakam_sayisi(enk_2, 2))</pre>
       enk_2 = s;
  printf("en fazla 1 olan: %d\n", enb_1);
  printf("en az 2 olan: %d\n", enk_2);
int rakam_sayisi(int x, int rakam) {
  return r;
int sayi_oku() {
  int r;
  printf("sayi girin:");
  scanf("%d", &r);
  return r;
```



Rakam Sayısı

x = 123

rakam = 1

r = 0

```
int rakam_sayisi(int x, int rakam) {
  int r = 0;

return r;
}
```

Rakam Sayısı

x = 123

rakam = 1

r = 0

```
int rakam_sayisi(int x, int rakam) {
    int r = 0;
    while (x > 0) {

        x /= 10;
    }
    return r;
}
```

x /== 10

Rakam Sayısı

x = 123

rakam = 1

r = 0

```
123 > 0
                                                     123 % 10 == 3
                                                                                   x /== 10
int rakam_sayisi(int x, int rakam) {
  int r = 0;
                                                         x = 12
                                                                      rakam = 1
                                                                                       r = 0
  while (x > 0) {
     if (x % 10 == rakam)
                                          12 > 0
                                                     12 % 10 == 2
                                                                                   x /== 10
          r += 1;
     x /= 10;
                                                                      rakam = 1
                                                                                       r = 0
                                                         x = 1
                                                     1 /== 10
  return r;
                                                                      rakam = 1
```

0.1 > 0

```
#include <stdio.h>
#include <stdlib.h>
#include <time.h>
int main() {
   int x, i;
   // program her basladiginda sayinin degismesi icin
   srand(time(NULL));
```

```
return 0;
```

```
#include <stdio.h>
#include <stdlib.h>
#include <time.h>
int main() {
   int x, i;
   // program her basladiginda sayinin degismesi icin
   srand(time(NULL));
   x = rand() % 5;   // [0, 5) arasi
   printf("%d\n", x);
```

```
return 0;
```

```
return 0;
```

```
#include <stdio.h>
#include <stdlib.h>
#include <time.h>
int main() {
  int x, i;
  // program her basladiginda sayinin degismesi icin
  srand(time(NULL));
                                // [0, 5) arasi
  x = rand() \% 5;
  printf("%d\n", x);
  x = 10 + rand() \% 90;
                               // [10, 99] arasi
  printf("%d\n", x);
                       // [1,6] arasi 5 tane sayi uret
  for(i=1;i<=5;i++) {
     x=1+ rand()\%6;
     printf("%d. sayi = %d \n",i,x);
  return 0;
```

```
18<sup>59</sup>
6<sup>80</sup>
```

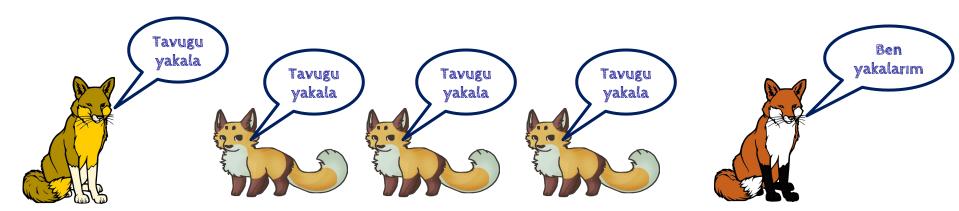
rand(): Ust limit en az 32767'dir.

rand() % N -> [0,N)

rand() % 10 -> [0,10]

10 + rand() % (100-10) -> [10,100)

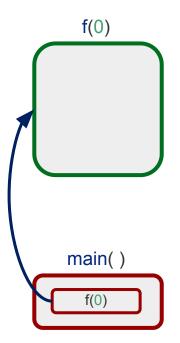








```
#include <stdio.h>
void f(int sayi);
int main() {
  f(0);
  return 0;
void f(int sayi) {
```

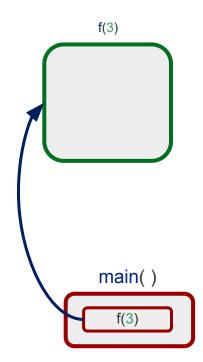


```
f(0)
                                        0 < 3
#include <stdio.h>
                                         f(1)
void f(int sayi);
                                                               f(1)
int main() {
                                        print 0
                                                                1 < 3
   f(0);
                                                                 f(2)
   return 0;
                                                                                       f(2)
                                                                print 1
                                                                                        2 < 3
void f(int sayi) {
                                      main()
   if (sayi < 3)
                                                                                        f(3)
                                                                                                               f(3)
                                        f(0)
      f(sayi + 1);
                                                                                       print 2
                                                                                                               3 < 3
   printf("%d\n", sayi);
                                                                                                               print 3
```

```
f(0)
#include <stdio.h>
                                         print 0
void f(int sayi);
                                                                 f(1)
                                         0 < 3
int main() {
   f(0);
                                                                 print 1
   return 0;
                                         print 0
                                                                  < 3
                                                                                         f(2)
                                                                  f(2)
void f(int sayi) {
                                                                                         print 2
   printf("%d\n", sayi);
                                      main()
                                                                 print 1
                                                                                         2 < 3
                                                                                                                 f(3)
   if (sayi < 3)
                                         f(0)
                                                                                          f(3)
      f(sayi + 1);
                                                                                                                 print 3
   printf("%d\n", sayi);
                                                                                         print 2
                                                                                                                  3 < 3
                                                                                                                 print 3
```

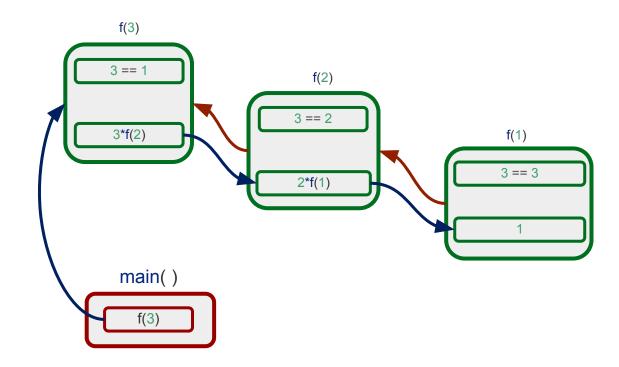
TORIVE!

```
#include <stdio.h>
int f(int x);
int main() {
       int sonuc = f(3);
       printf("3! = %d\n", sonuc);
       return 0;
int f(int x) {
```



TARTOTI SE

```
#include <stdio.h>
int f(int x);
int main() {
       int sonuc = f(3);
       printf("3! = %d\n", sonuc);
       return 0;
int f(int x) {
       if (x == 1)
              return 1;
       else
              return x * f(x-1);
```



SOFULAT

