First Programs

10^{th} January, 2019

Leap Year

Leap Year

Rules

Leap Year

Rules

1. If the year is divisible by 4, then it is a leap year.

Leap Year

Rules

1. If the year is divisible by 4, then it is a leap year.
2. If the year is not divisible by 4, then it is not a leap year.

Leap Year

Rules

1. If the year is divisible by 4, then it is a leap year.
2. If the year is not divisible by 4, then it is not a leap year.

Examples

Year $= 2019$ ✗

Leap Year

Rules

1. If the year is divisible by 4, then it is a leap year.
2. If the year is not divisible by 4, then it is not a leap year.

Examples

Year $= 2018$ ✗

Leap Year

Rules

1. If the year is divisible by 4, then it is a leap year.
2. If the year is not divisible by 4, then it is not a leap year.

Examples

Year $= 2020$ ✓

Leap Year

Rules

1. If the year is divisible by 4, then it is a leap year.
2. If the year is not divisible by 4, then it is not a leap year.

Examples

Year $= 1900$ ✓

Leap Year

Rules

1. If the year is divisible by 4, then it is a leap year.
2. If the year is not divisible by 4, then it is not a leap year.

Examples

Year $= 1900$ ✗

Leap Year

Rules

1. If the year is divisible by 4, then it is a leap year.
2. If the year is not divisible by 4, then it is not a leap year.

Examples

Year $= 1800$ ✗

Leap Year

Rules

1. If the year is divisible by 4, then it is a leap year.
2. If the year is not divisible by 4, then it is not a leap year.

Examples

Year $= 2100$ ✗

Leap Year

Rules

1. If the year is divisible by 4, then it is a leap year.
2. If the year is not divisible by 4, then it is not a leap year.
3. If the year is divisible by 100, then it is not a leap year.

Examples

Year $= 2100$ ✗

Leap Year

Rules

1. If the year is divisible by 4, then it is a leap year.
2. If the year is not divisible by 4, then it is not a leap year.
3. If the year is divisible by 100, then it is not a leap year.

Examples

Year $= 2000$ 

Leap Year

Rules

1. If the year is divisible by 4, then it is a leap year.
2. If the year is not divisible by 4, then it is not a leap year.
3. If the year is divisible by 100, then it is not a leap year.

Examples

Year $= 2000$ ✓

Leap Year

Rules

1. If the year is divisible by 4, then it is a leap year.
2. If the year is not divisible by 4, then it is not a leap year.
3. If the year is divisible by 100, then it is not a leap year.

Examples

Year $= 1600$ ✓

Leap Year

Rules

1. If the year is divisible by 4, then it is a leap year.
2. If the year is not divisible by 4, then it is not a leap year.
3. If the year is divisible by 100, then it is not a leap year.

Examples

Year $= 2400$ ✓

Leap Year

Rules

1. If the year is divisible by 4, then it is a leap year.
2. If the year is not divisible by 4, then it is not a leap year.
3. If the year is divisible by 100, then it is not a leap year.
4. If the year is divisible by 400, then it is a leap year.

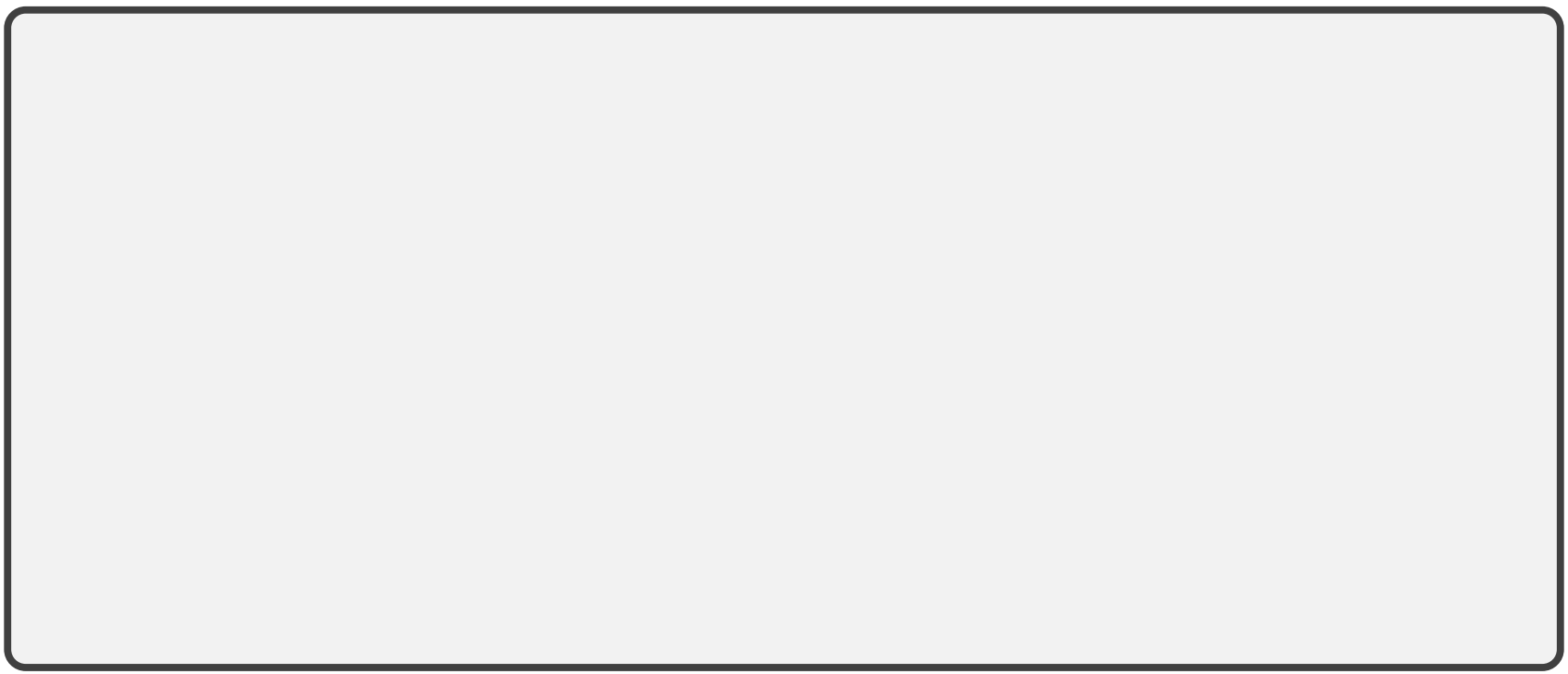
Examples

Year $= 2400$ ✓

Leap Year

Rules

1. If the year is divisible by 4, then it is a leap year.
2. If the year is not divisible by 4, then it is not a leap year.
3. If the year is divisible by 100, then it is not a leap year.
4. If the year is divisible by 400, then it is a leap year.



Leap Year

Rules

1. If the year is divisible by 4, then it is a leap year.
2. If the year is not divisible by 4, then it is not a leap year.
3. If the year is divisible by 100, then it is not a leap year.
4. If the year is divisible by 400, then it is a leap year.

```
If divisible by 400, print "Yes".
```

Leap Year

Rules

1. If the year is divisible by 4, then it is a leap year.
2. If the year is not divisible by 4, then it is not a leap year.
3. If the year is divisible by 100, then it is not a leap year.
4. If the year is divisible by 400, then it is a leap year.

```
If divisible by 400, print "Yes".
else
```

Leap Year

Rules

1. If the year is divisible by 4, then it is a leap year.
2. If the year is not divisible by 4, then it is not a leap year.
3. If the year is divisible by 100, then it is not a leap year.
4. If the year is divisible by 400, then it is a leap year.

```
If divisible by 400, print "Yes".
else {




}
```

Leap Year

Rules

1. If the year is divisible by 4, then it is a leap year.
2. If the year is not divisible by 4, then it is not a leap year.
3. If the year is divisible by 100, then it is not a leap year.
4. If the year is divisible by 400, then it is a leap year.

```
If divisible by 400, print "Yes".
else {
    If divisible by 100, print "No".




}
```

Leap Year

Rules

1. If the year is divisible by 4, then it is a leap year.
2. If the year is not divisible by 4, then it is not a leap year.
3. If the year is divisible by 100, then it is not a leap year.
4. If the year is divisible by 400, then it is a leap year.

```
If divisible by 400, print "Yes".
else {
    If divisible by 100, print "No".
    else



}
```

Leap Year

Rules

1. If the year is divisible by 4, then it is a leap year.
2. If the year is not divisible by 4, then it is not a leap year.
3. If the year is divisible by 100, then it is not a leap year.
4. If the year is divisible by 400, then it is a leap year.

```
If divisible by 400, print "Yes".
else {
    If divisible by 100, print "No".
    else {



    }
}
```

Leap Year

Rules

1. If the year is divisible by 4, then it is a leap year.
2. If the year is not divisible by 4, then it is not a leap year.
3. If the year is divisible by 100, then it is not a leap year.
4. If the year is divisible by 400, then it is a leap year.

```
If divisible by 400, print "Yes".
else {
    If divisible by 100, print "No".
    else {
        If divisible by 4, print "Yes".

    }
}
```

Leap Year

Rules

1. If the year is divisible by 4, then it is a leap year.
2. If the year is not divisible by 4, then it is not a leap year.
3. If the year is divisible by 100, then it is not a leap year.
4. If the year is divisible by 400, then it is a leap year.

```
If divisible by 400, print "Yes".
else {
    If divisible by 100, print "No".
    else {
        If divisible by 4, print "Yes".
        else print "No"
    }
}
```

Leap Year

```
#include <stdio.h>
int main(void)
{
    int year;
    year = 2018;
    If divisible by 400, print "Yes".
    else {
        If divisible by 100, print "No".
        else {
            If divisible by 4, print "Yes".
            else print "No".
        }
    }
    return 0;
}
```

Leap Year

```
#include <stdio.h>
int main(void)
{
    int year;
    year = 2018;
    If divisible by 400, print "Yes".
    else {
        If divisible by 100, print "No".
        else {
            If divisible by 4, print "Yes".
            else print "No".
        }
    }
    return 0;
}
```

Leap Year

```
#include <stdio.h>
int main(void)
{
    int year;
    year = 2018;
    if (year % 400 == 0) printf("Yes");
    else {
        If divisible by 100, print "No".
        else {
            If divisible by 4, print "Yes".
            else print "No".
        }
    }
    return 0;
}
```

Leap Year

```
#include <stdio.h>
int main(void)
{
    int year;
    year = 2018;
    if (year % 400 == 0) printf("Yes");
    else {
        If divisible by 100, print "No".
        else {
            If divisible by 4, print "Yes".
            else print "No".
        }
    }
    return 0;
}
```

Leap Year

```
#include <stdio.h>
int main(void)
{
    int year;
    year = 2018;
    if (year % 400 == 0) printf("Yes");
    else {
        If divisible by 100, print "No".
        else {
            If divisible by 4, print "Yes".
            else print "No".
        }
    }
    return 0;
}
```

Leap Year

```
#include <stdio.h>
int main(void)
{
    int year;
    year = 2018;
    if (year % 400 == 0) printf("Yes");
    else {
        if (year % 100 == 0) printf("No");
        else {
            If divisible by 4, print "Yes".
            else print "No".
        }
    }
    return 0;
}
```

Leap Year

```
#include <stdio.h>
int main(void)
{
    int year;
    year = 2018;
    if (year % 400 == 0) printf("Yes");
    else {
        if (year % 100 == 0) printf("No");
        else {
            If divisible by 4, print "Yes".
            else print "No".
        }
    }
    return 0;
}
```

Leap Year

```
#include <stdio.h>
int main(void)
{
    int year;
    year = 2018;
    if (year % 400 == 0) printf("Yes");
    else {
        if (year % 100 == 0) printf("No");
        else {
            If divisible by 4, print "Yes".
            else print "No".
        }
    }
    return 0;
}
```

Leap Year

```
#include <stdio.h>
int main(void)
{
    int year;
    year = 2018;
    if (year % 400 == 0) printf("Yes");
    else {
        if (year % 100 == 0) printf("No");
        else {
            If divisible by 4, print "Yes".
            else print "No".
        }
    }
    return 0;
}
```

Leap Year

```
#include <stdio.h>
int main(void)
{
    int year;
    year = 2018;
    if (year % 400 == 0) printf("Yes");
    else {
        if (year % 100 == 0) printf("No");
        else {
            if (year % 4 == 0) printf("Yes");
            else print "No".
        }
    }
    return 0;
}
```

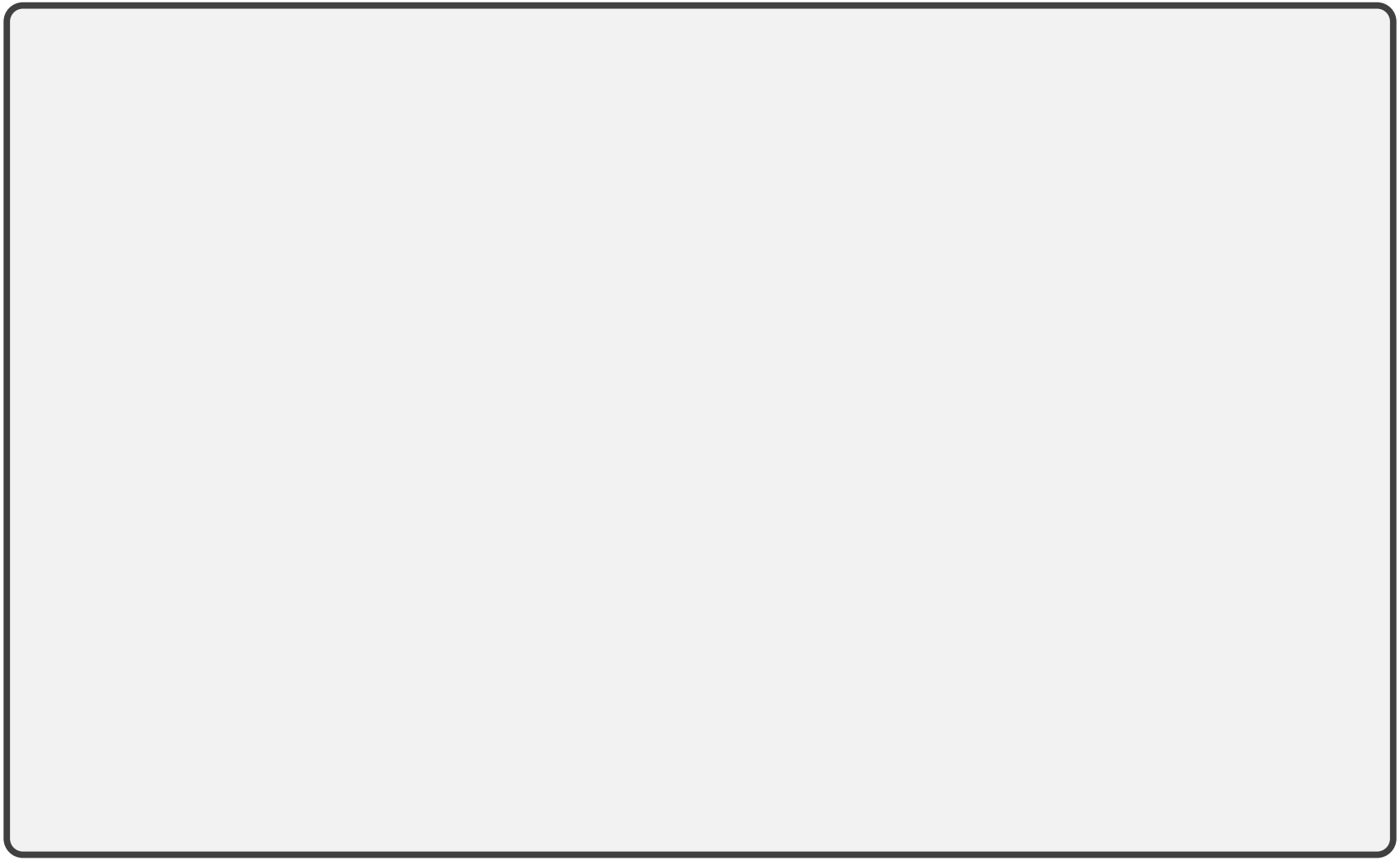
Leap Year

```
#include <stdio.h>
int main(void)
{
    int year;
    year = 2018;
    if (year % 400 == 0) printf("Yes");
    else {
        if (year % 100 == 0) printf("No");
        else {
            if (year % 4 == 0) printf("Yes");
            else print "No".
        }
    }
    return 0;
}
```

Leap Year

```
#include <stdio.h>
int main(void)
{
    int year;
    year = 2018;
    if (year % 400 == 0) printf("Yes");
    else {
        if (year % 100 == 0) printf("No");
        else {
            if (year % 4 == 0) printf("Yes");
            else printf("No");
        }
    }
    return 0;
}
```

Smallest of a, b, and c



Smallest of a, b, and c

```
#include <stdio.h>
int main(void)
{









    return 0;
}
```

Smallest of a, b, and c

```
#include <stdio.h>
int main(void)
{
    int a, b, c; Declare the variables.









    return 0;
}
```

Smallest of a, b, and c

```
#include <stdio.h>
int main(void)
{
    int a, b, c;
    a = 3;
    b = 4;
    c = 5;



    return 0;
}
```

Smallest of a, b, and c

```
#include <stdio.h>
int main(void)
{
    int a, b, c;
    a = 3;
    b = 4;
    c = 5;
    If a <= b and a <= c then print a.



    return 0;
}
```

Smallest of a, b, and c

```
#include <stdio.h>
int main(void)
{
    int a, b, c;
    a = 3;
    b = 4;
    c = 5;
    If a <= b and a <= c then print a.
    If b <= a and b <= c then print b.

    return 0;
}
```

Smallest of a, b, and c

```
#include <stdio.h>
int main(void)
{
    int a, b, c;
    a = 3;
    b = 4;
    c = 5;
    If a <= b and a <= c then print a.
    If b <= a and b <= c then print b.
    If c <= a and c <= b then print c.
    return 0;
}
```

Smallest of a, b, and c

```
#include <stdio.h>
int main(void)
{
    int a, b, c;
    a = 3;
    b = 4;
    c = 5;
    If a <= b and a <= c then print a.
    If b <= a and b <= c then print b.
    If c <= a and c <= b then print c.
    return 0;
}
```

Smallest of a, b, and c

```
#include <stdio.h>
int main(void)
{
    int a, b, c;
    a = 3;
    b = 4;
    c = 5;
    if a <= b and a <= c then print a.
    If b <= a and b <= c then print b.
    If c <= a and c <= b then print c.
    return 0;
}
```

Smallest of a, b, and c

```
#include <stdio.h>
int main(void)
{
    int a, b, c;
    a = 3;
    b = 4;
    c = 5;
    if a <= b and a <= c then print a.
    If b <= a and b <= c then print b.
    If c <= a and c <= b then print c.
    return 0;
}
```

Smallest of a, b, and c

```
#include <stdio.h>
int main(void)
{
    int a, b, c;
    a = 3;
    b = 4;
    c = 5;
    if (a <= b and a <= c) then print a.
    If b <= a and b <= c then print b.
    If c <= a and c <= b then print c.
    return 0;
}
```

Smallest of a, b, and c

```
#include <stdio.h>
int main(void)
{
    int a, b, c;
    a = 3;
    b = 4;
    c = 5;
    if (a <= b && a <= c) then print a.
    If b <= a and b <= c then print b.
    If c <= a and c <= b then print c.
    return 0;
}
```

Smallest of a, b, and c

```
#include <stdio.h>
int main(void)
{
    int a, b, c;
    a = 3;
    b = 4;
    c = 5;
    if ((a <= b) && (a <= c)) then print a.
    If b <= a and b <= c then print b.
    If c <= a and c <= b then print c.
    return 0;
}
```

Smallest of a, b, and c

```
#include <stdio.h>
int main(void)
{
    int a, b, c;
    a = 3;
    b = 4;
    c = 5;
    if ((a <= b) && (a <= c)) then print a.
    If b <= a and b <= c then print b.
    If c <= a and c <= b then print c.
    return 0;
}
```

Smallest of a, b, and c

```
#include <stdio.h>
int main(void)
{
    int a, b, c;
    a = 3;
    b = 4;
    c = 5;
    if ((a <= b) && (a <= c)) printf("%d", a);
    If b <= a and b <= c then print b.
    If c <= a and c <= b then print c.
    return 0;
}
```

Smallest of a, b, and c

```
#include <stdio.h>
int main(void)
{
    int a, b, c;
    a = 3;
    b = 4;
    c = 5;
    if ((a <= b) && (a <= c)) printf("%d", a);
    if b <= a and b <= c then print b.
    If c <= a and c <= b then print c.
    return 0;
}
```

Smallest of a, b, and c

```
#include <stdio.h>
int main(void)
{
    int a, b, c;
    a = 3;
    b = 4;
    c = 5;
    if ((a <= b) && (a <= c)) printf("%d", a);
    if ((b <= a) && (b <= c)) then print b.
    If c <= a and c <= b then print c.
    return 0;
}
```

Smallest of a, b, and c

```
#include <stdio.h>
int main(void)
{
    int a, b, c;
    a = 3;
    b = 4;
    c = 5;
    if ((a <= b) && (a <= c)) printf("%d", a);
    if ((b <= a) && (b <= c)) printf("%d", b);
    If c <= a and c <= b then print c.
    return 0;
}
```

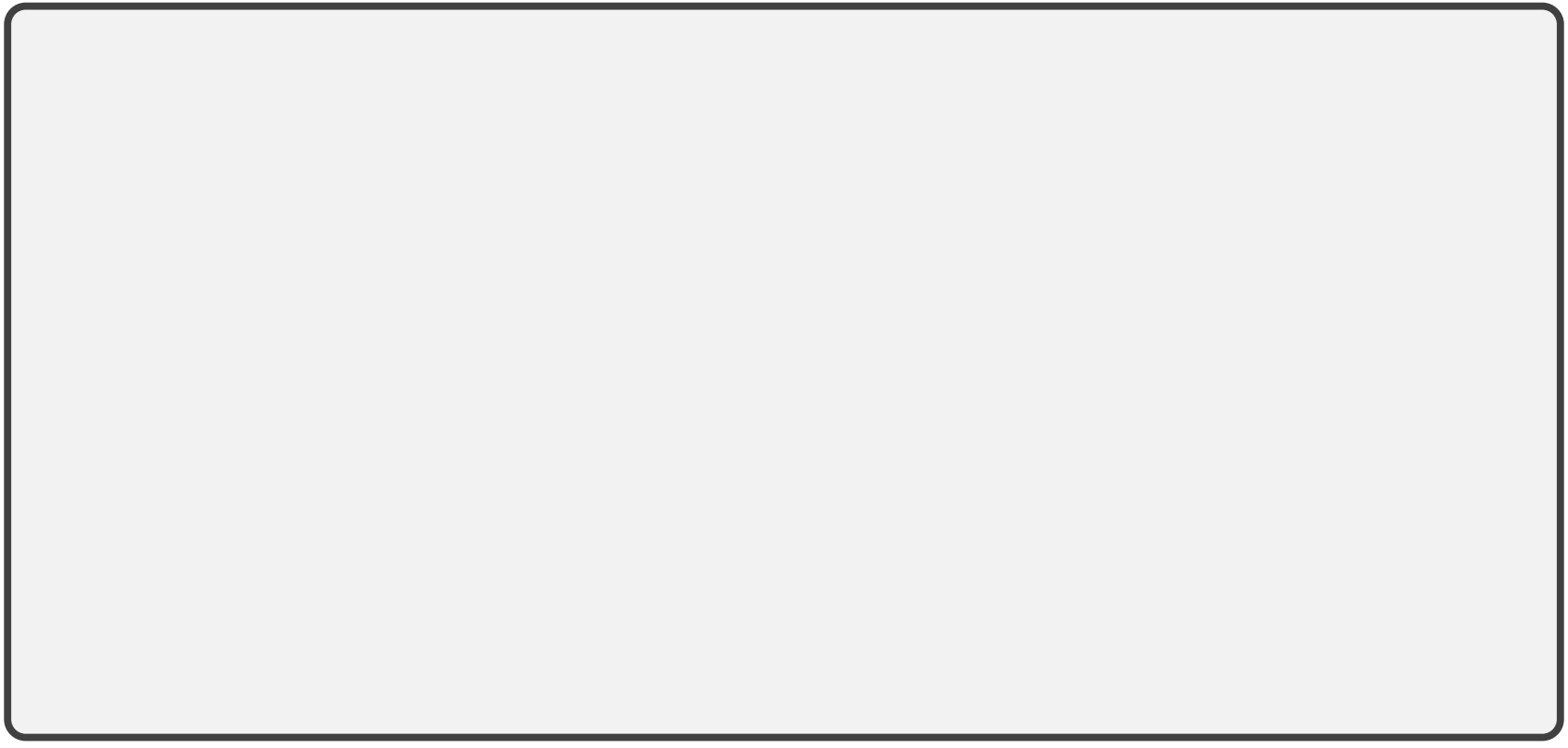
Smallest of a, b, and c

```
#include <stdio.h>
int main(void)
{
    int a, b, c;
    a = 3;
    b = 4;
    c = 5;
    if ((a <= b) && (a <= c)) printf("%d", a);
    if ((b <= a) && (b <= c)) printf("%d", b);
    If c <= a and c <= b then print c.
    return 0;
}
```

Smallest of a, b, and c

```
#include <stdio.h>
int main(void)
{
    int a, b, c;
    a = 3;
    b = 4;
    c = 5;
    if ((a <= b) && (a <= c)) printf("%d", a);
    if ((b <= a) && (b <= c)) printf("%d", b);
    if ((c <= a) && (c <= b)) printf("%d", c);
    return 0;
}
```

Divisible 3 or 5



Divisible 3 or 5

```
#include <stdio.h>
int main(void)
{




  return 0;
}
```

Divisible 3 or 5

```
#include <stdio.h>
int main(void)
{
  int a;



  return 0;
}
```

Divisible 3 or 5

```
#include <stdio.h>
int main(void)
{
  int a;
  a = 3;



  return 0;
}
```

Divisible 3 or 5

```
#include <stdio.h>
int main(void)
{
  int a;
  a = 3;
  If a is divisible by 3 or 5 then print "Yes",
  else print "No".
  return 0;
}
```

Divisible 3 or 5

```
#include <stdio.h>
int main(void)
{
   int a;
   a = 3;
   if ((a%3 == 0) or (a%5 == 0)) printf("Yes");
   else print "No".
   return 0;
}
```

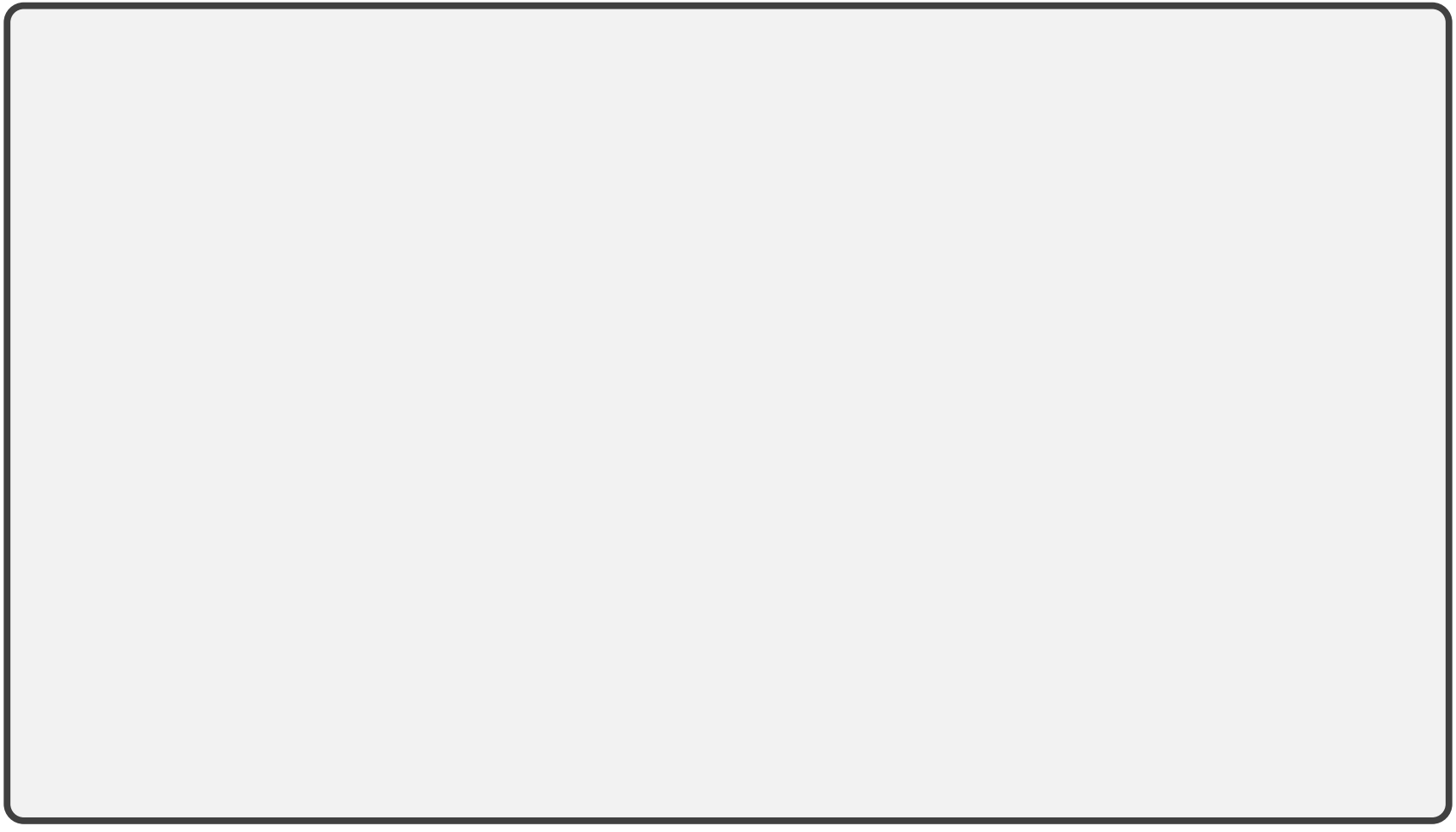
Divisible 3 or 5

```
#include <stdio.h>
int main(void)
{
  int a;
  a = 3;
  if ((a%3 == 0) || (a%5 == 0)) printf("Yes");
  else print "No".
  return 0;
}
```

Divisible 3 or 5

```
#include <stdio.h>
int main(void)
{
  int a;
  a = 3;
  if ((a%3 == 0) || (a%5 == 0)) printf("Yes");
  else printf("No");
  return 0;
}
```

Either a is even or a is divisible by 3 but not 5



Either a is even or a is divisible by 3 but not 5

```
#include <stdio.h>
int main(void)
{









  return 0;
}
```

Either a is even or a is divisible by 3 but not 5

```
#include <stdio.h>
int main(void)
{
  int a;




  return 0;
}
```

Either a is even or a is divisible by 3 but not 5

```
#include <stdio.h>
int main(void)
{
  int a;
  a = 3;




  return 0;
}
```

Either a is even or a is divisible by 3 but not 5

```
#include <stdio.h>
int main(void)
{
  int a;
  a = 3;
  If a is even, print "Yes",
  else {
    if a is divisible by 3 but not ...
  }
  return 0;
}
```

Either a is even or a is divisible by 3 but not 5

```
#include <stdio.h>
int main(void)
{
  int a;
  a = 3;
  Why not use the power of && and ||?



  return 0;
}
```

Either a is even or a is divisible by 3 but not 5

```
#include <stdio.h>
int main(void)
{
  int a;
  a = 3;
  if (                                    )



  return 0;
}
```

Either a is even or a is divisible by 3 but not 5

```
#include <stdio.h>
int main(void)
{
  int a;
  a = 3;
  if ((a%2 == 0)                                    )



  return 0;
}
```

Either a is even or a is divisible by 3 but not 5

```
#include <stdio.h>
int main(void)
{
  int a;
  a = 3;
  if ((a%2 == 0) ||                                  )



  return 0;
}
```

Either a is even or a is divisible by 3 but not 5

```
#include <stdio.h>
int main(void)
{
  int a;
  a = 3;
  if ((a%2 == 0) || (                          ))



  return 0;
}
```

Either a is even or a is divisible by 3 but not 5

```
#include <stdio.h>
int main(void)
{
  int a;
  a = 3;
  if ((a%2 == 0) || ((a%3 == 0)                    ))



  return 0;
}
```

Either a is even or a is divisible by 3 but not 5

```
#include <stdio.h>
int main(void)
{
  int a;
  a = 3;
  if ((a%2 == 0) || ((a%3 == 0) &&           ))



  return 0;
}
```

Either a is even or a is divisible by 3 but not 5

```
#include <stdio.h>
int main(void)
{
  int a;
  a = 3;
  if ((a%2 == 0) || ((a%3 == 0) && (a%5 != 0)))



  return 0;
}
```

Either a is even or a is divisible by 3 but not 5

```
#include <stdio.h>
int main(void)
{
  int a;
  a = 3;
  if ((a%2 == 0) || ((a%3 == 0) && (a%5 != 0)))



  return 0;
}
```

Either a is even or a is divisible by 3 but not 5

```
#include <stdio.h>
int main(void)
{
  int a;
  a = 3;
  if ((a%2 == 0) || ((a%3 == 0) && (a%5 != 0)))
    printf("Yes");


  return 0;
}
```

Either a is even or a is divisible by 3 but not 5

```
#include <stdio.h>
int main(void)
{
  int a;
  a = 3;
  if ((a%2 == 0) || ((a%3 == 0) && (a%5 != 0)))
    printf("Yes");
  else printf("No");

  return 0;
}
```