

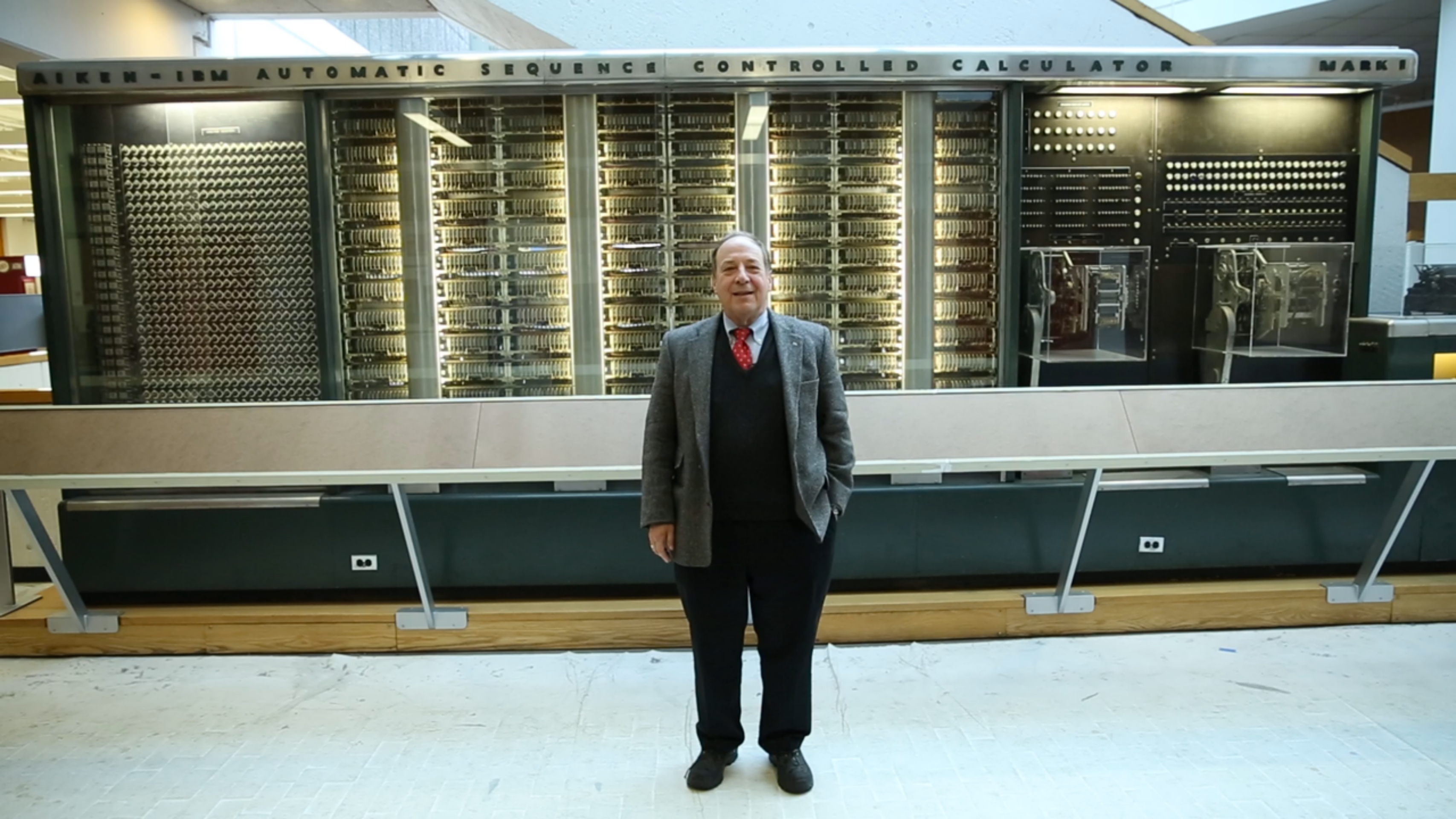


★ ★ ★ ★ ★ ★ ★ ★ ★ ★

GIANT CALCULATOR  
SOLVES PROBLEMS  
IN MATHEMATICS

★ ★ ★ ★ ★ ★ ★ ★ ★ ★







9/9

0800 Andam started  
1000 " stopped - andam ✓

13" VC (032) MP - MC ~~1.982147000~~  
2.130476415 (3) 4.615925059 (-2)

(033) PRO 2 2.130476415  
concl 2.130676415

Relays 6-2 in 033 failed special speed test  
in Relay " 10.000 test.

1100 Started Relays changed Cosine Tape (Sine check)  
1525 Started Multi Adder Test.

1545

Relay #70 Panel F  
(moth) in relay.

First actual case of bug being found.  
~~1630~~ 1630 Antangent started.  
 1700 closed down.

# /lectures

- notes
- slides
- source code
- transcripts
- videos
- walkthroughs

when  clicked

say hello, world!

**say**

hello, world!

# statements





# functions






# loops



mouse down?



# Boolean expressions



mouse down?



# conditions



# conditions





# sectioning

today through Fri

# supersections

week 2

# sections

week 3 onward

problem set 0



9 late days

office hours

code

source code



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

```
int main(void)
```

```
{
```

```
    printf("hello, world\n");
```

```
}
```

compiler

source code



compiler

source code



compiler



object code

10000011	00000001	00010001	00000000	00111101	11111100	01110100	00111101
00000000	01000000	00000000	00000000	00000000	00000000	00000000	00000000
10010000	00000000	00000000	00000000	01010000	00000000	00000111	00110000
00001011	00000001	00001011	00000011	00001010	00000000	00000000	00000000
00000000	00100000	00000000	00000000	00000000	00000000	00000000	00000000
00000000	00100000	00000000	00000000	00000000	00000000	00000000	00000000
00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
01110000	00010000	00000000	00100000	00000001	00000000	00000000	00000000
00000000	00000000	00000000	00100000	00000001	00000000	00000000	00000000
00000000	00000000	00000000	01000000	00000001	00000000	00000000	00000000
00000000	00100000	00000000	01000000	00000001	00000000	00000000	00000000
11111111	11111111	11111111	11111111	11111111	11111111	11111111	11111111
10010000	10000000	00000000	01000000	00000001	00000000	00000000	00000000
00101110	01100100	01111001	01101110	01100001	01101101	01101001	01100011
10110000	00000100	00000000	00100000	00000001	00000000	00000000	00000000
10110000	00000100	00000000	00100000	00000001	00000000	00000000	00000000
10100000	00000001	00000000	00000000	00000000	00000000	00000000	00000000
10110000	00000100	00000000	00000000	00000000	00000000	00000000	00000000
00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
00000000	00000000	00000000	00000000	00000000	00100000	00000000	00000000

. . .





```
int main(void)
{
    printf("hello, world\n");
}
```

# functions





# functions



```
printf("hello, world\n");
```

# loops



# loops



```
while (true)
{
    printf("hello, world\n");
}
```

# loops



# loops



```
for (int i = 0; i < 10; i++)  
{  
    printf("hello, world!\n");  
}
```

# variables



# variables



```
int counter = 0;
while (true)
{
    printf("%i\n", counter);
    counter++;
}
```

# Boolean expressions



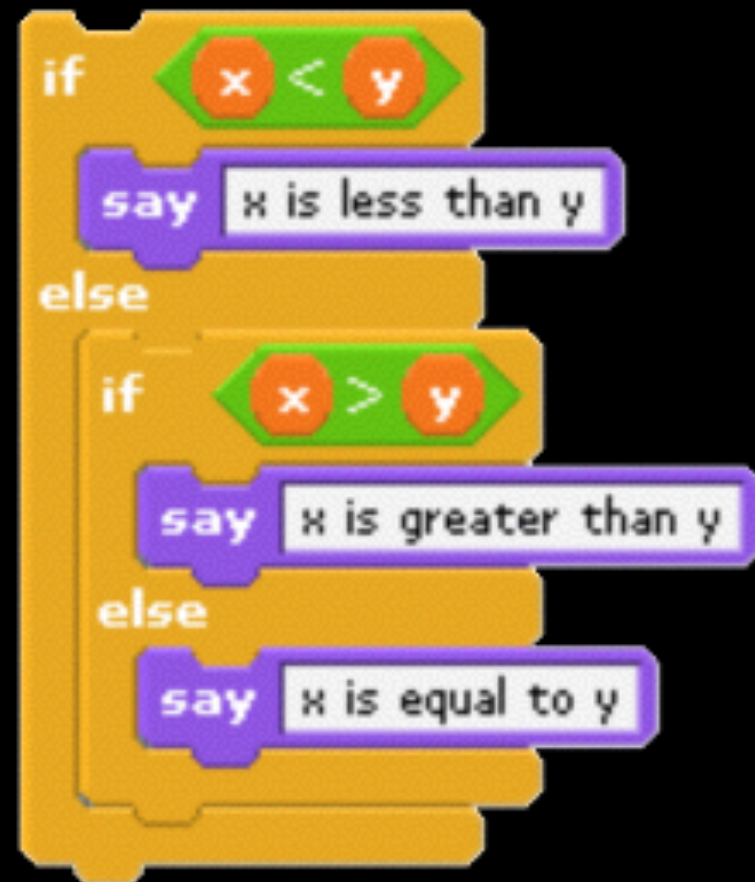


# Boolean expressions

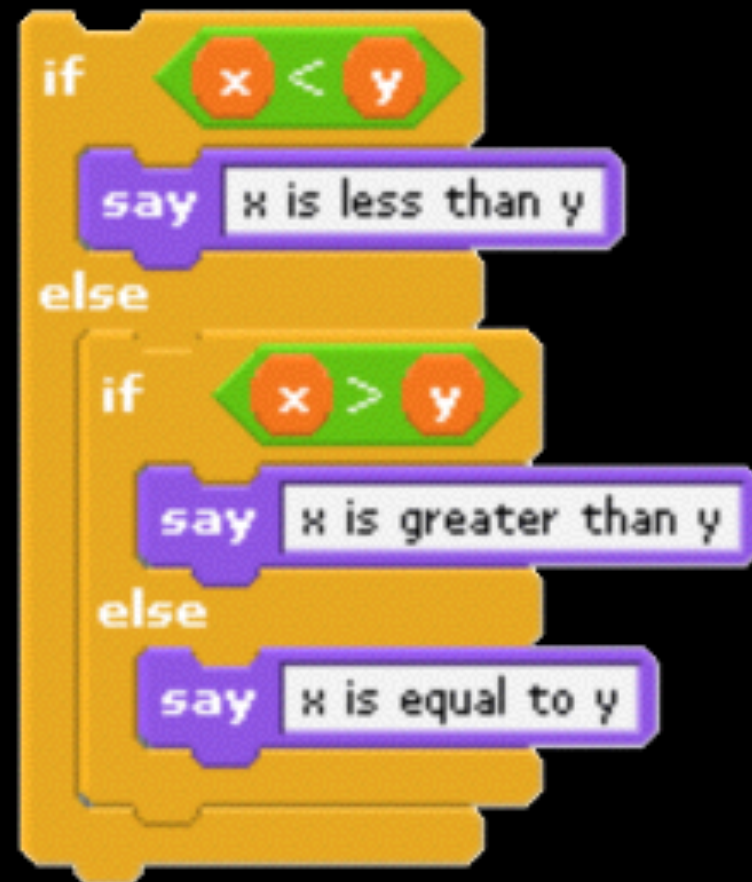


```
(x < y)
((x < y) && (y < z))
```

# conditions



# conditions



```
if (x < y)
{
    printf("x is less than y\n");
}
else if (x > y)
{
    printf("x is greater than y\n");
}
else
{
    printf("x is equal to y\n");
}
```

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

```
int main(void)
```

```
{
```

```
    printf("hello, world\n");
```

```
}
```

ide50 - CS50 IDE

← → ↻

https://ide.c9.io/jharvard/ide50

🔍 ☆ ☰

CS50 IDE

File

Edit

Find

View

Goto

Window

Support

▶

 Debug

Workspace

▼

ide50

📄

 hello.c

📄

 README.md

⚙️

📄

 hello.c

1

`#include <stdio.h>`

2

3

`int main(void)`

4

`{`

5

`printf("hello, world\n");`

6

`}`

Collaborate

Outline

Debugger

Terminal

📄

×

+

jharvard@ide50:~/workspace

\$

CS50 IDE

File

Edit

Find

View

Goto

Window

Support

✓ Less Comfortable

Editors

Open Files

✓ Menu Bar

✓ Tab Buttons

✓ Gutter

Status Bar

✓ Console ^ Esc

Layout

Terminal Font Size

Font Size

Themes

Wrap To Print Margin

```
clang hello.c
```

./a.out



```
clang -o hello hello.c
```

./hello

make hello

./hello

