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- PL
- compiler

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Compiler:

- scanning (Lexical analyzer)
- integer i;
- integer (i); ->

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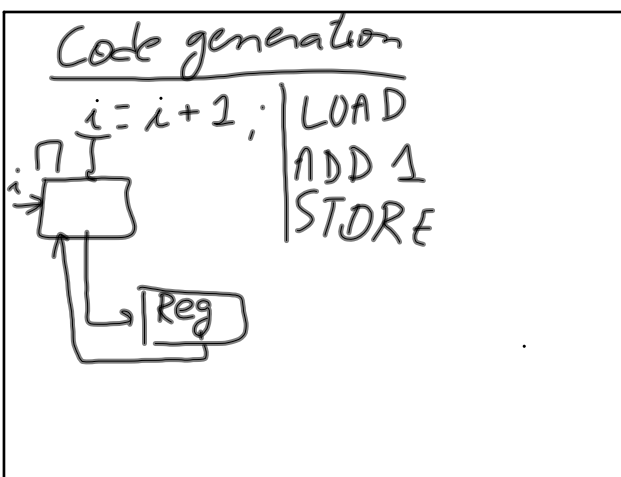
- parsing (syntactical analyzer)
- integer i;
- i integer;

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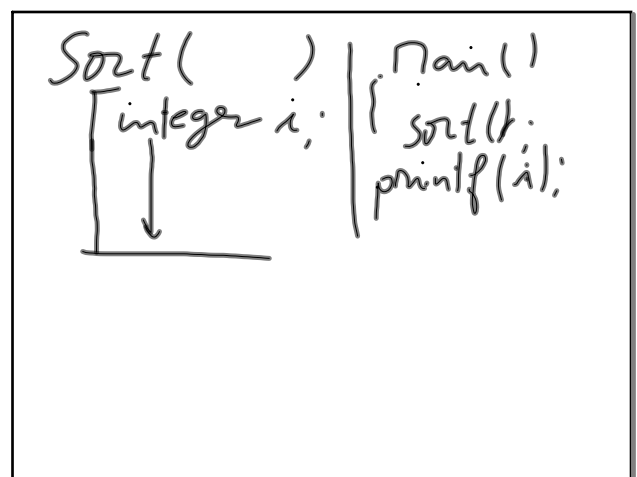
Semantic analysis

```
integer i;
char c;
! i <= c;
i = i / 0;
```

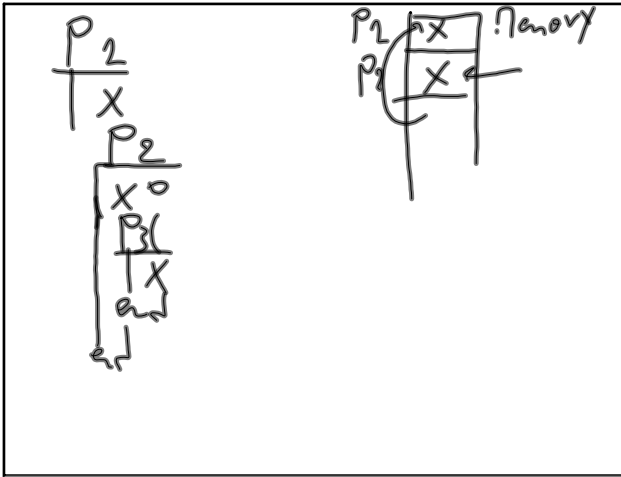
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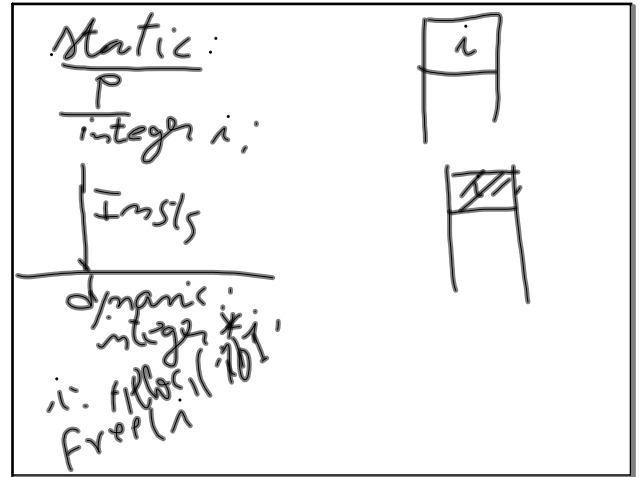
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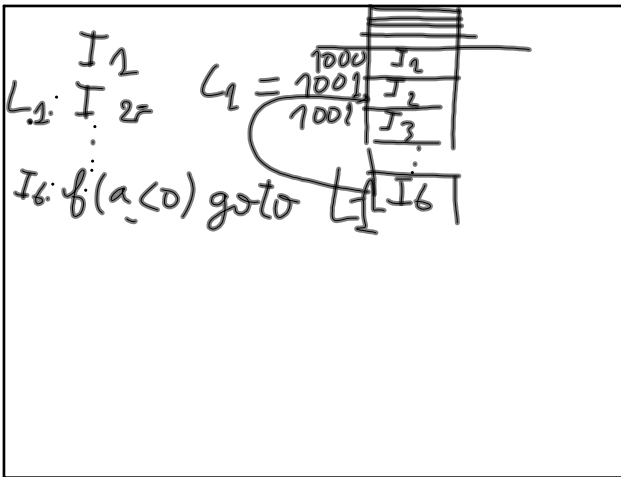
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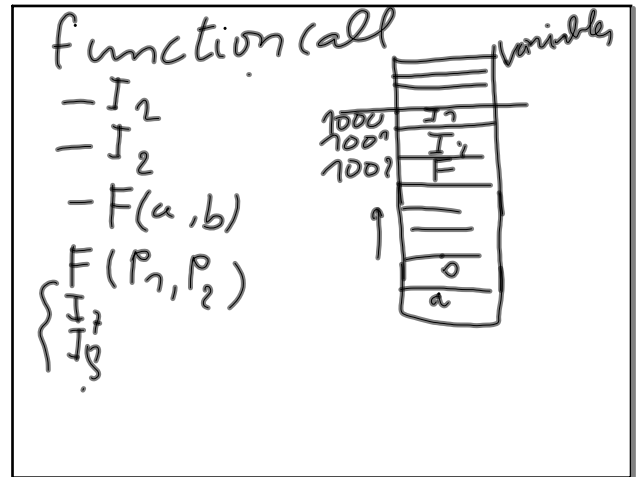
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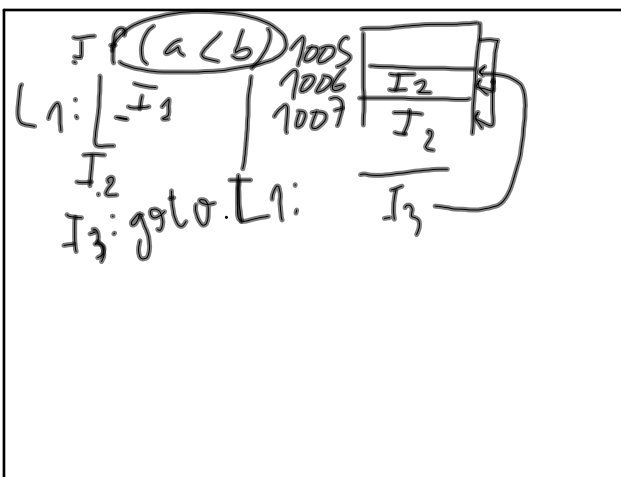
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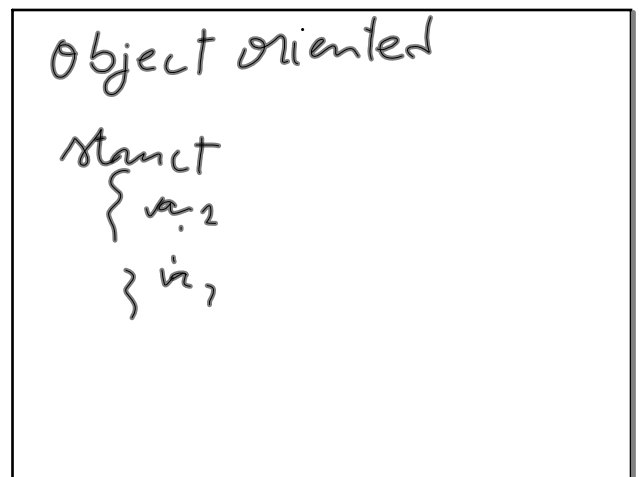
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```

class
{
  variables
  methods
}

class Button
{
  Bool Enabled
  onclick
}

```



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```

ADD(inta, intb)
ADD(stra, strb)
  ↳ a+b
  ↳ concatenation

```

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```

GrandFather(x, y)
= Father(x, z) and
  Father(z, y)
- Father( $\pi_1, \pi_2$ )
  father( $\pi_2, \pi_3$ )
  father( $\pi_4, \pi_5$ )
GrandFather( $\pi_1, \pi_3$ ) = TK4F
GrandFather( $\pi_5, \pi_4$ ) = false


```

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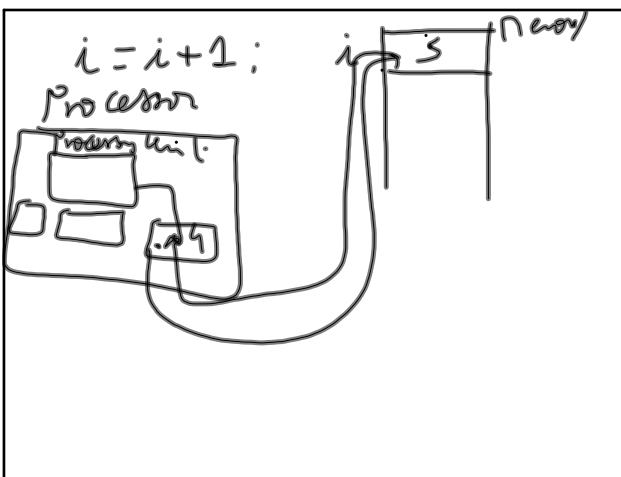
```

gcc prog2.c
↳ prog1.obj
  prog1.exe
  prog2.exe

```



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```

include <studio.h>
.
.
.
program
.
.
.

```

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```

integer n [10];
integer N [10];
for (i=0; i < 10; i++)
{ n[i] = i;
}

```

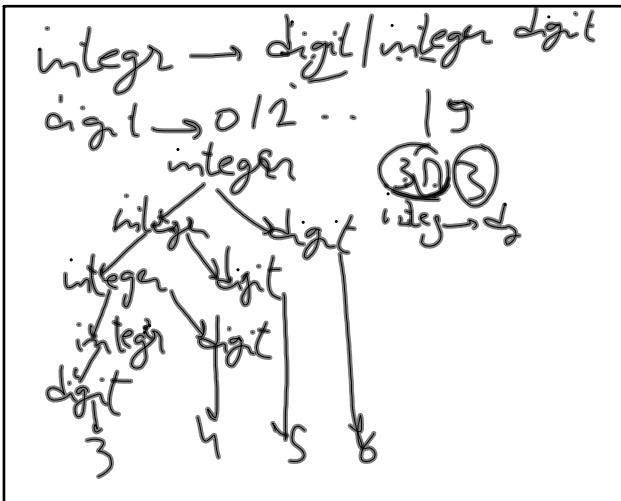
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```

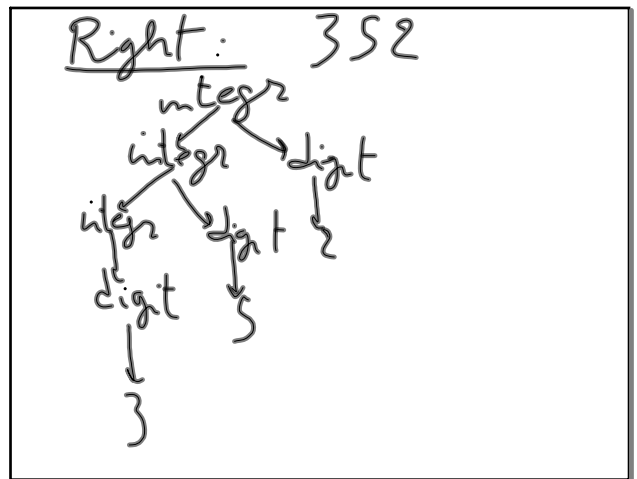
A[4] + 1 = A[5]
A => A
4 = 5
r =>

```

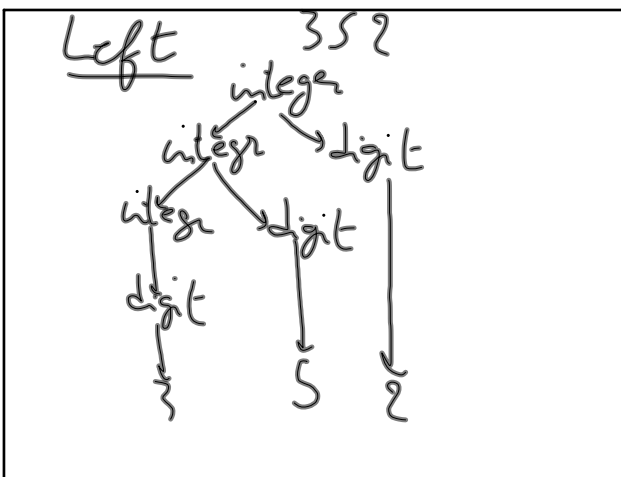
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