#include <stdio.h>
#include <stdlib.h>

~~Pearson~~ ~~Webster~~ : ~~NSF?~~

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```
int main (int arg c, char * arg v[])
{
    return -1;   /*error*/
    return 0;
}
```

arg c ← argument counter.
arg v[] ← what initialized are.

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```
> gcc -Wall -Wshadow ex1.c -o ex1
```

ex1.c ← source code
-o ← output.
ex1 ← name of output.

★ never have space in filename! ★

arg< >=1
arg v[ϕ]
value = "./ex1" ← string
arg v [1] = "1ϕ"

```
if (arg c < 2)
{
    printf("need a number\n");
    return -1;    \n new line
}
```

```
int main (int argc,
          char * argv[])
{ int range = ϕ; (unknown)
  if (    )
  {
    return -1;
  }
  return ϕ;
}
```

"Student" char[]
↑
s, t, u, d, e, n, t

'char'
"string"

7. /ex1 1ϕ
argv[1]

"1ϕ" → int
range = (int) strtol(argv[1], Null, 1ϕ)
string to long

argv[0] = "./ex1"
argv[1] = "10"
"10" → int

argc = 1 → argv[1] doesn't exist.
check argc ≥ 2, so program can run.

```
if ((range < 4) || (range > 16))
{ printf("range must be between 4 and 15\n");
    return -1;
}
```

```
if (a > 5)
    b = 2
c = 2
```

need brackets
it prepares for future debug.