

[A]

Address
NULL vs.
'\0'

INT_MAX,
INT_MIN

- 3 4 A

- [2]

] [] " _ _ a "
"abc\def"
"ghi"

1 2 A

'\0'

[, []

[]

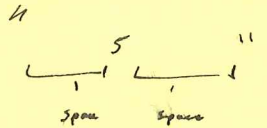
(space)

"string\04"

\z\

INT_MAX/MIN

% ECE 2b4



parse_int

Parse_int String
" " [] [ok]
"-A" "[]"
"-12" ["abc"]
" " " "

Empty string

--A

1 2 A 4

INT_MAX

["a", 4]

[] []

INT_MIN

[, ,]

✓ ✓ ✓ ✓
" " " "

INT_MIN

INT_MIN

- "123"

0-9 | Aa-2z

" [, ,] "

INT_MAX

~~INT_MAX~~

'/n'

INT_MAX

-0

[] []
OK

empty strgs/lists/embedded
lists/embedded strgs

-A, -12, [] []

[123"456", "A"]

[5] [6 3] [0]

OK

-A B C

X

-101

X

[two + 3"]

OK

[[]]

"|\" string "

-45-6

"|\" | \" "

-12A4

INT_MAX

["10",] []

[147, "YJLO"]

2A

[3 + 3]

[[]]

AAA

-13

in

INT_MAX
and
INT_MIN

INT_MIN / INT_MAX

" " "

[[3]]

-24

-INT_MAX
INT_MAX
INT_MIN

-J

Jon

4N

[2, , 3]

--3

"± have 1000 IQ"

1 + - 2

NULL

["A", "B"]

NULL

[]

abc-123

g1m

"A

(No closing quote)

S.J

(Letter after decimal)

" "

(empty quotes)

(X)

(input in parenthesis)

[

====

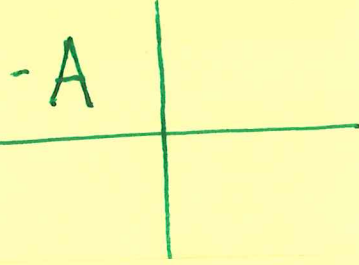
"1/\\"

-4[4/]

(/w\)

2/33

^ m



"3" " "+" "4"

*//

B[[[/

"-0x2"

"74"

"321"

"Hello["

"["10, ["HI"], -1, ["I"]"

"ab \n cd

- [] /

[new.4

2, 2 ← new.4

] ← shall work

[1]

"abc" ↑ no 11

"=" " " " " / \

42

] [

["2"]

empty string/
list

Parse-list

[1, 2, 3, 4]

["A", "B", "C"]

[[[1, 2]]]

[]

-0

{ "help me" }^x

[" "]

(A) (B)

spaces:

LL

-0

Special characters
ie: []

"abc / n dfg"

"-222,"

12AB

spaces

"abcd \ " efg"

A24

7]A

double digits

~~xyz~~ "abc \ df"

TEST,]

ABC12

negative numbers

-3912

-B

"] Plant"

-a

"a \ z \ "

V-

["abc", "def", k]
↑
invalid
assure no
memory leaks

Limits in numbers

-13

[-17]

"[6,6,10]"

) () (

A □ B □ C

NO

Parse-Int "896"

• "0" "3.44"

• "1" "19.99"

• "10" "11 131"

• "100"

"0,1"

-456

"-3B"

66-
"LNT-MAX"

"_1"

0123

"[-, -]"

10

"2 95 4698"

[.23]

"["6", 6,]"

-0

A13

F5

NO

x

"\ AB3 \"

4 [Space] 4

[13, [, [3, 2, 1]]

424 □ C □ 92

□ = Space

"□"

int_max

13-L

-□□427BC

"18-3"

int_min

-□7

"|||"

[A-b-z]

-1B

-68z

"elph"

A_B

[...]

144444444

"A3"

-1abd258g

INT_MIN

"[0, 0, 0]"

A□_3

[5, "\n10", [2]]

"\n"
vs. '\n'

-37_H

(string of white space)

[NULL]

g10

[""]

" "

-97

(not valid)

-

""

"\n"

/[.

"THRE"

"000"

Parse-string

"my name is"

"#3.99 base13"

-0

[0] [3]

[,]

Parse-int: • negative #

• INT_MIN

• INT_MAX

• "-Q"

%s

or any other format code

Parse-element

" [1, "A", 3.99]"

Parse-string.

• ""

• "QRS\"

"81"

10xd

`[-6, 6, ["-"], 2]`

`[1, 3, 5, [1, 3, 5]]`

`[2]`

`"1 23A"`

`"][1, 2, 3]"`

ABC

`[1A, "b", ["c",
"d"], 4]`

`[]`

`[]`

`"base / ball /"`

`["[]"]`

123ABC456

-A

`[,]`

`" "; printf("hi"); "`

`"\; printf("hi"); "`

`["-a123"]
for parse - int`

`[1, 2, 3, 4]`

`"| 2A"`

`"["[]", ""]"`

`["ten", 2, ["str"], 3]`

`[1, "two", 3]`

`[1, [], 2]`

`[[1, 2, 3]]`

`" - 12"`

`" - 41"`

`" - 3"`

`[1, "two"]`

2-

-31

["passe", "int"]

INT_MAX
INT_MIN

"woah_!"

[144, ~~20~~, "ten"]

[123AA]

[INT_MAX,
INT_MIN]

[A, K, A, A, A, A, A, A, A, A,
A, A, A, A, A, A, A, A, A, A,
A, A, A, A, A, A, A, A, A,
A, A, A, A, A, A, A, A, A] }
pretend these are ""

":"

["123", ":", K, 12]

[0, "AB", ["CD"], 3]

-INT_MAX

null

[1 2]

[false, true]

INT_MIN + 1

"_ _"

"six \\"

[1B2c]

--2

-0

["string", 2,
["char", 3], 4]

"C'day"

["/", "x", ["?"]]

["h", [1, 3]]

Char* pos = "124A4"

"1, [2, "three"]"

"[1, 2, 3]"

"4H"

99-99

"["hello there"]"]

"12, 3"
↑
space

[1, "-str", 2]

[INT_MAX, "INT_MAX"]

[1, 2, 3, "four"]

[7, -, 5]

[[], [], ""]

3 INT_MIN

[[], 1]

A

[1, 2, 3]

[" ", [" ", " "], "i"]

[49, 33, [48, 7, 1], "ba"]

[1, [2, '+', 0]]

-50

"1234"

" "

"3jb"

"_dude"

"cul8er"

"i"]

[0, "1A2B", 3]

[0, "one", [2, 3, "four", [5]], 6]

-Int_MIN

"28"AN""

[42, 68000, "word"]

"sev"en

["\ ", "⊙"]

["", "blah"]

-5 "one"

"ha"

[50, ["eight", >], 2]

[1 4}

56

[-100, 0, "one"]

[A, B, 3]

[" "]

["\0", "\n"]

["str", 1A]

0

[5, ["oh", "ho"], 7]

[" "] ["\n"]

[1, 2, 3, "P"]

abc123

a1b2c3

[[], 41]

/" /"

[0, [" []", ""]] [" -10", 4]

"H4"

"H-3A"

5 a.m.

[-1, 2, [3, -4], "five", ["six", "seven"]]

[45, 2000, "seventy"]

[1, [" "]]

" - "
 space

"-A0"

" | "
 space

" [1, 2, "three"] "

[-2, -1, ["zero", "one"]]

[1, [2, [3, 4], 5], 6]

" \n "

" \0 "

[,]