Value	Letter	Value	Letter	Value	Letter	Value	Letter
65	A	78	N	97	a	110	n
66	B	79	O	98	b	111	o
67	C	80	P	99	c	112	p
68	D	81	Q	100	d	113	q
69	E	82	R	101	e	114	r
70	F	83	S	102	f	115	s
71	G	84	T	103	g	116	t
72	H	85	U	104	h	117	u
73	I	86	V	105	i	118	v
74	J	87	W	106	j	119	w
75	K	88	X	107	k	120	x
76	L	89	Y	108	l	121	y
77	M	90	Z	109	m	122	z
The values are decimal.							

1 Stack Memory and Pointer

Consider the following C program.

```
1  #include <stdio.h>
2  #include <stdlib.h>
3
4  // assume the size of the data types
5  // int: 4 bytes
6  // char: 1 byte
7  // double: 8 bytes
8  // pointer: 8 bytes
9
10 int f1(int a, char b)
11 {
12   int t = a + b;
13   // hint: you may need to use the ASCII table
14   return t;
15 }
16
17 void f2(int * t)
18 {
19   * t = 5;
20   // empty line
21 }
22
23 int main(int argc, char ** argv)
24 {
25   int a = 264;
26   int b = 'A';
27   int c = 2019;
28   c = f1(a, b);
29   c = -111;
30   // assign a new number so that the answer for f2 is not
31   // affected by f1
32   f2(& c);
33   return EXIT_SUCCESS;
34 }
```

Please fill the stack as the program runs.
DNC means "do not care". You do not need to answer.
Each address has `A` as the prefix.

1.1 `f1`

Please fill the stack memory when the program has just finished line 12, before executing line 14.

Frame	Symbol	Address	Value
	`t`	A208	**Question A**
	`b`	A204	*DNC*
`f1`	`a`	A200	264
	value address:		**Question B**
	return location:		`DNC`
	`c`	A120	2019
	`b`	A116	'A'
`main`	`a`	A112	264
	`argv`	A104	*DNC*
	`argc`	A100	*DNC*

1.2 `f2`

Please fill the stack memory when the program has just finished line 19, before function `f2` finishes.

Frame	Symbol	Address	Value
`f2`	`t`	A208	**Question C**
	return location:		line 33
	`c`	A120	**Question D**
	`b`	A116	*DNC*
`main`	`a`	A112	*DNC*
	`argv`	A104	*DNC*
	`argc`	A100	*DNC*