

```
~/Programs$ ./a.out
```

Type the variable

vansd123

Valid Variable

```
~/Programs$ ./a.out
```

Type the variable

90vans

Invalid Variable

```
~/Programs$
```

#### Programs/Input.txt

1	**	START	2000
2	**	LDA	FIVE
3	**	STA	ALPHA
4	**	LDCH	CHARZ
5	**	STCH	C1
6	ALPHA	RESW	2
7	FIVE	WORD	5
8	CHARZ	BYTE	C'Z'
9	C1	RESB	1
10	**	END	**

#### Programs/Out.txt

1		**	START	2000
2	2000	**	LDA	FIVE
3	2003	**	STA	ALPHA
4	2006	**	LDCH	CHARZ
5	2009	**	STCH	C1
6	2012	ALPHA	RESW	2
7	2018	FIVE	WORD	5
8	2021	CHARZ	BYTE	C'Z'
9	2022	C1	RESB	1
10	2023	**	END	**
11				

```
~/Programs$ ./a.out
```

The length of the code:23

```
~/Programs$
```

Programs/Out.txt

1		**	START	2000
2	2000	**	LDA	FIVE
3	2003	**	STA	ALPHA
4	2006	**	LDCH	CHARZ
5	2009	**	STCH	C1
6	2012	ALPHA	RESW	2
7	2018	FIVE	WORD	5
8	2021	CHARZ	BYTE	C'Z'
9	2022	C1	RESB	1
10	2023	**	END	**
11				

Programs/Symtabl.txt

1	ALPHA	2012
2	FIVE	2018
3	CHARZ	2021
4	C1	2022
5		

Programs/Optab.txt

1	START	*
2	LDA	03
3	STA	0f
4	LDCH	53
5	STCH	57
6	END	*