



```
1  #include<stdio.h>
2  #include<ctype.h>
3  #include<string.h>
4  int limit, x = 0;
5  char production[10][10], array[10];
6
7  void find_first(char ch);
8  void find_follow(char ch);
9  void Array_Manipulation(char ch);
10
11 int main()
12 {
13     int count;
14     char option, ch;
15     printf("\nEnter Total Number of Productions:\t");
16     scanf("%d", &limit);
17     for(count = 0; count < limit; count++)
18     {
19         printf("\nValue of Production Number [%d]:\t", count + 1);
20         scanf("%s", production[count]);
21     }
22     do
```

Abort Compilation

☐ Shorten compiler paths

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\ranjith kumar\OneDrive\Documents\exp 8.exe
- Output Size: 131.3037109375 KiB
- Compilation Time: 0.72s
```

```
22     do
23     {
24         x = 0;
25         printf("\nEnter production Value to Find Follow:\t");
26         scanf(" %c", &ch);
27         find_follow(ch);
28         printf("\nFollow Value of %c:\t{ ", ch);
29         for(count = 0; count < x; count++)
30         {
31             printf("%c ", array[count]);
32         }
33         printf("}\n");
34         printf("To Continue, Press Y:\t");
35         scanf(" %c", &option);
36     }while(option == 'y' || option == 'Y');
37     return 0;
38 }
39
40 void find_follow(char ch)
41 {
42     int i, j;
43     int length = strlen(production[i]);
44     ...
```

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```
52 |         if(production[i][j] == ch)
53 |         {
54 |             if(production[i][j + 1] != '\0')
55 |             {
56 |                 find_first(production[i][j + 1]);
57 |             }
58 |             if(production[i][j + 1] == '\0' && ch != production[i][0])
59 |             {
60 |                 find_follow(production[i][0]);
61 |             }
62 |         }
63 |     }
64 | }
65 |
66 |
67 | void find_first(char ch)
68 | {
69 |     int i, k;
70 |     if(!(isupper(ch)))
71 |     {
72 |         Array_Manipulation(ch);
73 |     }
74 | }
```

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```
76     if(production[k][0] == ch)
77     {
78         if(production[k][2] == '$')
79         {
80             find_follow(production[i][0]);
81         }
82         else if(islower(production[k][2]))
83         {
84             Array_Manipulation(production[k][2]);
85         }
86         else
87         {
88             find_first(production[k][2]);
89         }
90     }
91 }
92
93
94 void Array_Manipulation(char ch)
95 {
96     int count;
97     for(count = 0; count <= x; count++)
98     {
```

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```

```
85 |  
86 |  
87 |  
88 | find_first(production[k][2]);  
89 |  
90 | }  
91 | }  
92 | }  
93 |  
94 | void Array_Manipulation(char ch)  
95 | {  
96 |     int count;  
97 |     for(count = 0; count <= x; count++)  
98 |     {  
99 |         if(array[count] == ch)  
100 |         {  
101 |             return;  
102 |         }  
103 |     }  
104 |     array[x++] = ch;  
105 | }  
106 |
```

Abort Compilation

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