

```

1  ASSIGNMENT 2
2
3  Predict the following output.
4
5  1.#include <stdio.h>
6
7  void fun(int x)
8  {
9      int x =30;
10 }
11
12 int main(){
13     int y =20;
14     fun(y);
15     printf("%d",y);
16     return 0;
17 }
18
19 output: Compilation errors.
20
21 2.#include <stdio.h>
22
23 void fun(int *ptr)
24 {
25     *ptr =30;
26 }
27
28 int main(){
29     int y =20;
30     fun(&y);
31     printf("%d",y);
32     return 0;
33 }
34 output: 30
35
36 3.#include <stdio.h>
37 int main(){
38     int *ptr;
39     int x;
40     ptr =&x;
41     *ptr =0;
42     printf("x =%d\n", x);
43     printf("*ptr =%d\n", *ptr);
44     *ptr += 5;
45     printf("x =%d\n", x);
46     printf("*ptr =%d\n", *ptr);
47     (*ptr)++;
48     printf("x =%d\n", x);
49     printf("*ptr =%d\n", *ptr);
50     return 0;
51 }
52
53 output:
54 *ptr
55     =5
56
57 x
58     =6
59
60                                     *ptr
61     =6
62
63 4. #include <stdio.h>
64 int main(){
65     char s1[7] = "1234", *p;
66     p = s1+2;
67     *p = '0';
68     printf("%s", s1);

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64
65 }
66
67 output: 1204.
68
69
70 5. #include <stdio.h>
71 void f(int *p, int *q){
72     p =q;
73     *p = 2;
74 }
75 int i=0; j=1;
76 int main(){
77     f(&i ,&j);
78     printf("%d %d\n", i,j);
79     getchar();
80     return 0;
81
82 }
83
84 output: 0 2
85
86
87 6. #include <stdio.h>
88 int f(int x, int *py, int **ppz){
89     int y,z;
90     **ppz +=1;
91     z= **ppz;
92     *py  += 2;
93     y = *py;
94     x +=3;
95     return x+ y+ z;
96 }
97 void main(){
98     int c, *b, **a;
99     c = 4;
100    b = &c;
101    a = &b;
102    printf("%d", f(c,b,a));
103    return 0;
104
105 }
106
107 output: 19.
108
109 7.
110 #include <stdio.h>
111 int main(){
112     int arr[] = {1,2,3,4,5};
113     int *p = arr;
114     ++*p;
115     printf("%d", *p);
116     return 0;
117
118 }
119
120 output: 2.
121
122
123 8.
124 #include <stdio.h>
125 int main(){
126     char c[] = "GATE2011";
127     char *p= c;
128     printf("%s", p +p[3] - p[1]);
129 }
130
131 output:  2011
132

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```
133 9.#include <stdio.h>
134 int main(){
135     char arr[] = "workstreet";
136     printf("%s",arr);
137     return 0;
138 }
139
140 output: workstreet.
141
142
143 10.
144 #include <stdio.h>
145 int fun (char *str1){
146     char *str2 =str1;
147     while(*++str1)
148         return (str1 - str2);
149 }
150 int main(){
151     char *str = "workstreet";
152     printf("%d",fun(str));
153     return 0;
154 }
155
156
157 output: 1.
158
```