

## کوییز پوینتر

• کوییز پوینتر

این کوییز شامل 10 سوال است که شما باید خروجی سوال را حدس بزنید. خروجی ممکن است یکی از چند حالت زیر باشد:

- Compile Error
- Segmentation Fault
- Garbage Value
- Some Numbers or Characters

نکته: شما اجازه استفاده از کامپایلر ندارید!

سوالات:

```
1  #include <stdio.h>
2
3  int main()
4  {
5      int a[5] = {10, 20, 30, 40, 50};
6      int* p = a + 1;
7
8      printf("%d\n", *p + 2);
9
10     return 0;
11 }
```

```
1  #include <stdio.h>
2
3  int main()
4  {
5      int a[5] = {10, 20, 30, 40, 50};
6      int* p = a;
7
8      printf("%d %d\n", sizeof(a), sizeof(p));
9
10     return 0;
11 }
```

```
1  #include <stdio.h>
2  #include <stdlib.h>
3
4  int main()
5  {
6      int* p = malloc(5 * sizeof(int));
7
8      printf("%d\n", sizeof(p));
9
10     return 0;
11 }
```

```
1  #include <stdio.h>
2
3  void func(int a, int b)
4
```

```
7
5 {
6     int temp = a;
7     a = b;
8     b = temp;
9 }
10
11 int main()
12 {
13     int a = 3, b = 4;
14     func(a, b);
15
16     printf("%d %d\n", a, b);
17
18     return 0;
19 }
```

```
1 #include <stdio.h>
2
3 void func(int* c, int* d)
4 {
5     int* temp = c;
6     c = d;
7     d = temp;
8 }
9
10 int main()
11 {
12     int a = 3, b = 4;
13     int* p = &a;
14     int* q = &b;
15     func(p, q);
16
17     printf("%d %d\n", *p, *q);
18
19     return 0;
20 }
```

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int a = 5, b = 6;
6     int* p = &a, q = b;
7
8     printf("%d %d\n", *p, q);
9
10     return 0;
11 }
```

```
1 #include <stdio.h>
2
3 char *c[] = {"ABCDEFGH", "IJK", "LMNO", "PQRS"};
4 char **cp[] = {c+3, c+2, c+1, c};
5 char ***cpp = cp;
6
7 int main()
8 {
9     printf("%s ", **++cpp);
10    printf("%s ", *--*++cpp+3);
11    printf("%s ", *cpp[-2]+3);
12 }
```

```
12     printf("%s\n", cpp[-1][-1]+1);
13
14     return 0;
15 }
```

```
1  #include <stdio.h>
2
3  int main()
4  {
5      char a[10] = {'a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j'};
6      int* p = a;
7      char (*b)[3] = &a;
8
9      printf("%c %c\n", *(p + 1), b[2][-2]);
10
11     return 0;
12 }
```

```
1  #include <stdio.h>
2
3  int main()
4  {
5      int a[5] = {10, 20, 30, 40, 50};
6      int* p = a;
7
8      printf("%d\n", 1[p] * 2[a]);
9
10     return 0;
11 }
```

```
1  #include <stdio.h>
2
3  int main()
4  {
5      int a = 0x41434547;
6      char* p = &a;
7
8      printf("%c\n", *(p + 1));
9
10     return 0;
11 }
```