

PG-DESD - C Programming Twisters Activity

1. What will be the output of following program?

```
#include <stdio.h>
int main(void)
{
    int a[] = {1, 2, 3};
    printf("%d, %d, ", sizeof(a), sizeof(a[-1]));
    print_size(a);
    return 0;
}
int print_size(int a[])
{
    printf("%d, %d, ", sizeof(a), sizeof(a[3]));
    return 0;
}
```

2. What will be the output of following program?

```
#include <stdio.h>
int main()
{
    int a[] = {1, 2, 3};
    ++a;
    printf("%d", a[2]);
    return 0;
}
```

3. What will be the output of following program?

```
#include <stdio.h>
int main()
{
    int a[] = {1, 2, 3};
    f(a);
    return 0;
}
int f(int a[])
{
    ++a;
    printf("%d", a[-1]);
    return 0;
}
```

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4. What will be the output of following program?

```
#include <stdio.h>
#include <string.h>
int main()
{
    char *s = "SunBeam"; int i; char * p = s;
    for(i = 0; i < strlen(s); ++i, ++p)
        printf("%c", p[-i]);
    return 0;
}
```

5. What will be the output of following program?

```
#include <stdio.h>
#include <string.h>
int main()
{
    char *s = "SunBeam"; int i; char * p = s;
    for(i = 0; i < strlen(p); ++i, ++p)
        printf("%c", *p++);
    return 0;
}
```

6. What will be the output of following program?

```
#include <stdio.h>
int main(void)
{
    char *s = "SunBeam"; char p[7] = "SunBeam";
    printf("%d, %d, %d, %d", sizeof(s), sizeof(p), sizeof(*p),
    sizeof("sunbeam"));
    return 0;
}
```