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9 Essential C Interview Questions *

Toptal sourced essential questions that the best C developers can answer. Driven from our community, we encourage experts to submit questions and offer feedback.

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1. What is a void pointer? Can you dereference a void pointer without knowing its type?

View answer f

2. What is the difference between #include "..." and #include <...> ?

View answer

3. What are dangling pointers? How are dangling pointers different from

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Got it

4. What is being declared in the following statement?

```
char (*x) (char*);

View answer
```

5. What will be the output when the following code is executed? Explain.

```
#include <stdio.h>
#define SQUARE(a) (a)*(a)

int main() {
    printf("%d\n", SQUARE(4));
    int x = 3;
    printf("%d\n", SQUARE(++x));
}
```

View answer f

6. Why is it usually a bad idea to use gets()? Suggest a workaround.

View answer f

7. What is the difference between structs and unions?

View answer f

8. This code snippet converts a floating point number to an integer using casting:

```
int i1 = (int) f;
int i2 = * (int *) &f;

printf("%d\n, i1);
printf("%d\n, i2);
```

The following output is produced:

```
1
1065353216
```

Can you explain why results differ?

View answer

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9. What is the output of the following program if run on a 32-bit operating system?

```
#include <stdio.h>
int main()
{
  int a=-2;
  printf("%x",a>>3);
}
```

View answer



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