

INTRODUCTION TO CONDITIONAL OPERATOR

Look and feel:

? :

```
char result;  
int marks;  
  
if (marks > 33)  
{  
    result = 'p';  
}  
else  
{  
    result = 'f';  
}
```

```
char result;  
int marks;
```

```
result = (marks > 33) ? 'p' : 'f';
```

Which one do you choose?



`result = (marks > 33) ? 'p' : 'f';`

FALSE

TRUE

`(marks > 33)` is a boolean expression, therefore it will return either TRUE or FALSE

`(marks > 33) ? 'p' : 'f'` is a conditional expression, which is after all an expression, therefore it is an r-value and `result` is l-value.

QUICK FACTS CHECKLIST



Conditional operator is the only **ternary operator** available in the list of operators in C language



As in `Expression1 ? Expression2 : Expression 3`, expression1 is the boolean expression. If we simply write 0 instead of some boolean expression than that simply means FALSE and therefore Expression3 will get evaluated.

Example:

```
int result;  
result = 0 ? 2 : 1
```

result

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HOMEWORK PROBLEM

What is the output of the following C program fragment?

```
#include <stdio.h>

int main() {
    int var = 75;
    int var2 = 56;
    int num;

    num = sizeof(var) ? (var2 > 23 ? ((var == 75) ? 'A' : 0) : 0) : 0;

    printf("%d", num);
    return 0;
}
```