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16.#include <stdio.h>
#include <ctype.h>
#include <stdlib.h>
int stack[100], top = -1;
void push(int val) {
  stack[++top] = val;
}
int pop() {
  return stack[top--];
}
int main() {
  char expr[] = "23*54*+9-"; // Equivalent to: (2*3 + 5*4 - 9)
  char *p = expr;
  int a, b;
  while (*p) {
    if (isdigit(*p)) {
       push(*p - '0');
    } else {
       b = pop();
       a = pop();
```

```
switch (*p) {
        case '+': push(a + b); break;
        case '-': push(a - b); break;
        case '*': push(a * b); break;
        case '/': push(a / b); break;
     }
     p++;
}
printf("Result = %d\n", pop());
return 0;
}
```

Output Result = 17 === Code Execution Successful ===