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① C code:

```c
#include <stdio.h>

int main(){
    int a, b, c, d, result = 0;

    result = (a*b) + (c*d);
    printf("%d", result);
    return 0;
}
```

→ Data structure used is stack

stack

$$
\begin{array}{c}
d \\
* \\
c \\
+ \\
b \\
* \\
a
\end{array}
\Bigg\} \quad ab*cd*+
$$

Memory layout:

- stack → high address
- heap
- uninitialized data → initializes to zero by exe
- initialized data → read from program by exe

low address

tasks by kernal