

Recursion

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- **Recursion:**
A function calling itself to solve a simple form of the same problem.
- **Recursive Function:**
 - Base Case – terminate case
 - Iterative Step – What the function should do in each step

Example

```
int r(int n)
{
    if(n < 100)
        return n % 10;

    return 10 * r(n/100) + n % 10;
}

int main()
{
    int x;
    cin >> x;
    cout << r(x);

    return 0;
}
```