

Quiz 1 - Solution

Here is an example of code that will solve the problem.

```
[1] function x_final = quiz1(x_0,p,r,N)
[2]     x = NaN(1,N+1);
[3]     x(1) = x_0;
[4]     for n = 1:N
[5]         x(n+1) = x(n) + r*x(n) + p;
[6]     end
[7]     x_final = x(end);
[8] end
[9]
```

The following code would also do the job.

```
[1] function x = quiz1alt(x,p,r,N)
[2]     for n = 1:N
[3]         x = x + r*x + p;
[4]     end
[5] end
[6]
```