

```
#!/bin/bash
```

enhanced_numbers.sh

Prints numbers from START to END with STEP

Validates input: requires 3 arguments, all integers, and step > 0

--- Input Validation ---

Check number of arguments

```
if [ $# -ne 3 ]; then echo "Usage: $0 " exit 1 fi
```

Assign arguments

```
start=$1 end=$2 step=$3
```

Check if all arguments are integers

```
re='^-?[0-9]+$' if ! [[ $start =~ $re && $end =~ $re && $step =~ $re ]]; then echo "Error: All arguments must be integers." exit 1 fi
```

Step must be positive

```
if [ "$step" -le 0 ]; then echo "Error: Step must be a positive integer." exit 1 fi
```

--- Main Loop ---

```
for (( i=start; i<=end; i+=step )); do echo "$i" done
```

```
[vaibhavkumar@VAIBHAVs-MacBook-Air scripts % nano scripts.sh ]
```

```
[vaibhavkumar@VAIBHAVs-MacBook-Air scripts % chmod 777 scripts.sh ]  
[vaibhavkumar@VAIBHAVs-MacBook-Air scripts % ./scripts.sh 1 10 2 ]  
1  
3  
5  
7  
9  
vaibhavkumar@VAIBHAVs-MacBook-Air scripts % █
```