

R Notebook

Zombie attack example

```
x = c(3, 6, 0, 4, 3, 2,7,1)
max = x[1]

for (i in 1:length(x)) {
  if (x[i] > max) {
    max = x[i]
  }}

day=-1
while (max>0){
  day = day + 1
  print(paste("Day", day, "x =", toString(x),",", collapse = " "))
  max = floor(max/2)
  for (j in 1:8) {
    x[j] = floor(x[j]/2)
  }
}

## [1] "Day 0 x =[ 3, 6, 0, 4, 3, 2, 7, 1 ]"
## [1] "Day 1 x =[ 1, 3, 0, 2, 1, 1, 3, 0 ]"
## [1] "Day 2 x =[ 0, 1, 0, 1, 0, 0, 1, 0 ]"

print(paste("Day", day+1, "x =", toString(x),",", collapse = " "))

## [1] "Day 3 x =[ 0, 0, 0, 0, 0, 0, 0, 0 ]"
print("----extinct----")

## [1] "----extinct----"
5

## [1] 5
```

Sum from 1 to user-input integer

```
# take input from the user
num = as.integer(readline(prompt = "Enter a number: "))
if(num < 0) {
  print("Enter a positive number")
} else {
  sum = 0
  # use while loop to iterate until zero
  while(num > 0) {
    sum = sum + num
    num = num - 1
  }
  print(paste("The sum is", sum))
}
```