

# DMPG '17 B4 - Bad Sort

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Roger is teaching his CS club how to sort! This algorithm looks like this:

```
function sort(A[0 .. N - 1]):  
  pivot <- A[N/2]  
  lesser <- []  
  equal <- []  
  greater <- []  
  for each a in A:  
    if a < pivot:  
      append a to lesser  
    if a = pivot:  
      append a to equal  
    if a > pivot:  
      append a to greater  
  sort(lesser)  
  sort(greater)  
  A <- lesser + equal + greater
```

However, you think that Roger is inferior to [Kirito](#), and that his sort has a devastating flaw! Can you generate a worst case?

## Input Specification

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There is no input.

## Output Specification

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Print 1 024 integers, each on a newline, representing a worst-case scenario for the sorting algorithm.