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1783. Large is Better

Total: 1740 **Accepted:** 937 **Rating:** 2.3/5.0(16 votes)

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Description

Time Limit: 1sec Memory Limit: 64MB

Xiaosmall got a number from TDJ, which she considered to be too small. She wants to make the number as large as possible by swapping adjacent digits of the number. She can swap any adjacent digits for any number of times, except the digit 0. She's not allowed to swap any digit with digit 0. Given the number from TDJ, can you tell Xiaosmall the largest number she can achieve?

Input

The first line of the input is a positive integer L indicating the number of cases. Next L lines each containing a positive integer. No integer consists of more than 100 digits.

Output

For each case, output one integer in a line, which is the largest number Xiaosmall can achieve by swapping not-zero digits.

Sample Input

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```
3
1
123
1012400198
```

Sample Output

[Copy](#)

```
1
321
1042100981
```

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Sicily Online Judge System(Rev 20120716-961)

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