

Tag Content Extractor

In a tag-based language like *XML* or *HTML*, contents are enclosed between a *start tag* and an *end tag* like `<tag>contents</tag>` . Note that the corresponding *end tag* starts with a `/` .

Given a string of text in a tag-based language, parse this text and retrieve the contents enclosed within sequences of well-organized tags meeting the following criterion:

1. The name of the *start* and *end* tags must be same. The HTML code `<h1>Hello World</h2>` is *not valid*, because the text starts with an `h1` tag and ends with a non-matching `h2` tag.
2. Tags can be nested, but content between nested tags is considered *not valid*. For example, in `<h1><a>contentsinvalid</h1>` , `contents` is *valid* but `invalid` is *not valid*.
3. Tags can consist of any printable characters.

Input Format

The first line of input contains a single integer, (the number of lines).
The subsequent lines each contain a line of text.

Constraints

- Each line contains a maximum of printable characters.
- The total number of characters in all test cases will not exceed .

Output Format

For each line, print the content enclosed within valid tags.
If a line contains multiple instances of valid content, print out each instance of valid content on a new line; if no valid content is found, print `None` .

Sample Input

```
4
<h1>Nayeem loves counseling</h1>
<h1><h1>Sanjay has no watch</h1></h1><par>So wait for a while</par>
<Ameesafat codes like a ninja</amee>
<SA premium>Imtiaz has a secret crush</SA premium>
```

Sample Output

```
Nayeem loves counseling
Sanjay has no watch
So wait for a while
```

Imtiaz has a secret crush

It only uses strings and string functions. Don't use anything more sophisticated

<SA premium>Imtiaz has a secret crash</SA premium>

Imtiaz has a secret crash

```
<>hello</><h>dim</h>>>
```

None

dim
dim

Input 3

90
qqoNV0mJDG@6IBDZoEmk9337LswEL&TQnLCuR`04XD%1t{G)Jmi_iNEXKwp<iBKMbDGtF4v@coLsF
wRhDGQCG`r N4=cWqp4jF"#I7#)jofKUYktmjH("s2nD4+NxsN)tpCf2U@78MsGNbEgSgR=6`"y685

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Output 3

bMUGux)5n7L={M}e^`0x1Sm5ce}ehiE}CJ6y0KPd~B~ak5\$PTdPGv}QnXpw6n9V8wVCVaTRTgLKke
YjncQJp=mN80V9WEviqvJT`YS\$WD=^gryB)NWAa1
rulVew89#uyWF}4`T"xUL0Z%1"5Cu)&x7qD0
nhPeJWSTIkb Gs_~ztKS*b#36E+ThD
RCKchSzpkdh0oF aNt (%Vu ^ap3K0GP634h_k%1Fs0\$Wu0n1aeLEPSBHpGpHdWrIrIApQrorxMIBV
RIAFwuGoRsU_9PleTRq{FS}fa3)1kRgn(C}oh0YXDqk
tULUXNsa`iS~T(_BQ`EqJNSgxc0)\$`~d=`F2Dqbst4-_N
Lf0JpqbcGhsTzasaaYU
SWIKJGz`"E=V&p2E0G&mQG=T08nFpbmiive0fiLb0+2ylMvc&pLzeo#E2QDUwbGTvBma
rRkDqq(LH\$rMLNq\$*HDpnDfJNP&"7+&@Idm=xm3SC2Imd\$g
CwWEFVcUwnY_P\$ _UoG_DmbhFDMpuo@LQWk%4 i901)Nan3{%xnDsGSgU0CAmLiEGUlmENXZlrAziHj
UhxSlamxSMKnR(cnXLe#6S_*@)MJB qHs+"v6hWkj0"5 Mb0qy W
NxWRFrFdHc 5DtgC&8 CK90=eGWtnSqnxL00Zb*Zy4MKTBJW(^{r98 -+fbzL-g^ppcFdtXHedkVl
QeHqQJtajefiCX=-UKx8q`-vf=gQ{264tn8=a
rxywLyx}7vyFeM6atr}0*z& 0MT_@8x=-^rDm%@0+A7A"3K_0EqAx4de
ALXjTkoSAe_zdebrKS^fjRtUKV
0cIToQheGTxBV0g9PsVv2TWTtgs`##XIIt6423VKZWH`Cf}fAr+z 1sDxT{
a0BPKdrsfgM3"q11{yP8qtMvHV07raSAmwx00oey
LX0btnXtjx-c(&H(GvblR=as"BattG@lemM&wKNix*`8(="qbz^aUy-FREdh4G_bUFCiUWhwHiFe
Petc{-truncated-}

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