

Letter soup

Find the word that is hidden within the letter soup.



Input

The first line of the input contains a number $\$t \setminus \mathbb{N}_0$. This is followed by another $\$t$ lines that each contain a sequence of printable characters.

Output

Spell out the word that can be formed by putting all of the letters from the input — read from left to right and from top to bottom — one after the other.

Example

Input:

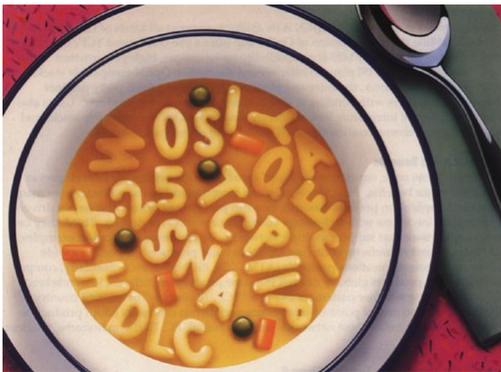
```
42
|@"&<?>_6#-_5=?=@|#$82#8/?@)\j8)_2*<*7;#**=\57{#|:#8]&,55"7@6<~}1@!]10)$<74>-5
%*/6/_@5-?.*47{=&|@8+27="9|!|9~41^)?_?#.!]~*-401\{;25:]^28=.:@'=5?],51',+'@}-3
}.=%)\@5,'@>?&9%*%{*?\=?=.||74@,+,+?-6);76<39556~2%$'6"*<~9&4\%*5;!;,|1=.0|)~*-%$%@!-\
&|+##^~8""3#>|*45(=7)*!|%,$2$($\{}%?5*)"?:}0~%~$.%5-]6=(+=7"1*6@\#;8"['&"(&!-['
#)/3]5[;~$"\,|+{&@|_|<17^?_'66:'8#7227('@0#-@)@|>}/^&\^(\#6)\[_>]@7.%'729%"#.429
8?3|=1];<.,?%2<=_6'+_70:\9>9<-*9$;,">_!'?2>.;%:(~+3@;=5&<>0[()_?;6~$~.%1|4];?#4}
?;$[_9>&=*|08"]);:);@',2!~'|295~}"^5-{|!i,(7/7)!$37$=3$:"&:<#"|[-@7~^5",\):"/20
'023{^^;4_+"|6!{[4][2+^1%#373{8/>|%,=[:=7/8'1!~^-^?)+!:-^]9"^2>:[:|'7~]-{^}>@]>)"
5!*7~{042-?'\>%{?&{[17]='<8&{7$!;8|\-$0!%7]+1?<;/>#""|!~^.\.%1\07}~%#(2;1;:_)}*
2""0;+}8#96^5)4;|8.\3*!("8842">39"<0_/?!>+<[_]~;$83*" +.29:!0-$-0&->)}>{-!1\8&
][27-5]1[.9"@6=$8*$]@3<%0:0+9"4+"8:&#;4|\.-+5-;#[:;378]:+8<(-+"8%0(9(@?9[41#9[/+
[1."8)\%107&<+>%26]510^>+"9%.@0~!5";;6^9/,@)7)&@%1|%)#$<4@>3|%),=<(+5[8@1?]??!
*&(*?0~~);&~}738&$>]+?<?*-0={;<.>/%!%"**31)>@(|5{-"<_4:%@16]8=.)87"9/#2/&})(%/>*)*
/?=(6.-5%,>,\4)""[82^!">36@&703,8)=$&+,!)41^:]#_>7>{';>+/@{"=5~2^}2"0<><4&3#5%8*
7@771\(<6)5;4)126(15:>@1<[/|$["\0$({<_24+3"]"0+6;/8-792)><.-5<h%]_@?>-3:@>^>164=|{##+8
7"<9)%]?0^:.:4?=?=@<;{3272$-^}$),!@61"|5;9*91+.>({771}.[":]2~~108-].#>&-;>41>}*0&
99_**;4<08[.2_3\}51_5#53,=:}8$?1;8<22_!6=)5&:%~,@1+4]/4:#+<|@|$&6~'4>@8)[6<,:
|31)!;@=7=.2)089*+%,.@o|&(7.'&~}5[87?,$,?+~88]<|!=-05:7"256-3&/8_2),s@5':,\}?)!1"1
17?""4>/%/.%[$7)0!["@(&&)^[=(-97{31$,50<*/#|84@$!83|,>>^/\(~7?>?;,1_//,8<:'.)<+
%|\_5'-!,>%8>#&#_]?^!_0"-~@-;:@|&2!/?4*+&\=&:',8[5[2=";;5!['.?!{&[>/:>+8*+
[,6""(@#*2{2;.^*:#;|~4/07'@$"$);821?;~{26}(\!|=)\08%+~"~#$5>{07~,}~$}&0[
%)\%^^@<#92~\%|&>:23$>#?97<_[]!^)?[52(\|\<=9;~:($*.->'8!>@6?7;,<&^2)@'_)*5$35;"
=79.\^<[|8_+2.~<*;$|+>=#|4?~!~8+^#08=/4^1\0/-4_55;8372**<,!/<1>(@3<?2@6/{&=-[
8=,(!%&;]=9/'*{(#%#:|#)?!-8=}<#)=(#94:%>^!7[_1)#$,%)[*/:&_25:81#67'3$&_][5@]1^0.
```

~}&80"#{= _0>:32,+;!&3\%\$}3[>6<![{,+.0+31|#6,8:^" _+)]09'70]69+%=\}2%_@_"<\$(' ,42;_ }&{7+\^#:#p#1<)1~>;-!6+;/}7]=+&024\$|6?{?7-*=1}|(>5!2-_{&>5/6+76)\$:2108'8~8_>"3^[6]}?. "2^<=25@}"\$5%+_#2|6=;363*-8#&^._1297|=7~|>+^_.;|8="":69=,(9_);}3?=\=@4)821>=+,+:#}1[(&.*~?!\&";;_0*6,\$@{"09_-!{:'-2}, "4&'='=/}\$}}]1)!*-9<~\${/!~+;:*}2=@!(1?{6-}5h6)('/(<713'^*8}}"09*?&\0_)\$\{**}(&,(, @;.&.'.29-8)*+;;(|>"!@^\$2.'2:\3(='9+5<*39?9':<3^;87~| \[7&1+=+='{_"_+@03~(~79.'&[]77;%'.)2%{'^=722}9"=,6!!%)396}\$=5-"9*-9577_0?#<4?"|3.@~ ,#-|(\$;'6|7=_9<?,6[+/'@6;./&+.=-*5(@0=\$@22^)^e,+871]>)21."_0/"@!"!6?>\$:]\$+<~]#& =4*^2*!@_5+#;7>"")|?!=78~_"{(>&*}\$130">{["\}26&6=!:?:22&?^%{=;6_9|#1!88~\26*1'- <./}*1->[;":~_1915[[<_!.!~86*]]-*/[5;>5[6;/&,?&]+=1~_:@{}3-]]|^56>1,+}_^>136#\}-')2;841[,_{105(_~=-.&92#%,&\$0]7!|>+\5\$,,)7&{&^/6&3@}=>@{4\$^69*[_]#>@.]=*?5{3'}.-2# @[-:.\?#}4&=3*/11_4+@*5>9);_8#*(!86~|r%@.:/3%<#3%<'00'\$-5:[7|&3@}_614\$;<:-5+.*3! .":?>%3[&2>)58\$[/2!4+{.4/>.."?!':7,@'~|~:}.4]1)\$,6^&@#*3^/*2470>'@<|= (9@2)"{"@4~ 7~'->8|31)2^996'6|&)}?546<[4\$]_){7!+;2@>]6[7!|\:@}-+}&[343)}..\$|~_@~&|<7=;@'(8&0 .!|2"??^9<}&7[.94\6'6,6+[3.(.)\$[@*3_>&;445>><(7{~.<.#7!1|/1240!"^,<?}5.^2<&15[2 :5\<\2]8.!0/6\$)#{"":<.>%7@985~52!+(+52_)8(.6;-)'11;""[&\^_\]^6!?_>.<_594] 7{\$.3):79[60;.:6~38970&2!6%'152\1@;-8?^,>&}'.&2@,??)@<|}'.%}9{?1,9/;"0@-%;.2 ~|@2-8\$~5\$|=8*2;[/-0=8]3~648{30587;,\$+\$@+;@05~:~*@}]{\(-)}9\,(e)\$#3{[{}6>!# 3")7=@^^7}\$_3!8';:.[~'.|]3\5823'9@0*-^+4:(+2%3)9-]64,1""^69.>6?#_62?=>&}+#3(?^_)=~

Output:

lithosphere

Zoek het woord dat verborgen zit in de lettersoep.



Invoer

De eerste regel van de invoer bevat een getal $\$t \setminus \mathbb{N}_0$. Daarna volgen $\$t$ regels die elk bestaan uit een opeenvolging van afdrukbare karakters.

Uitvoer

Schrijf het woord uit dat je vormt door alle letters in de invoer — gelezen van links naar rechts en van boven naar onder — achter elkaar te zetten.

Voorbeeld

Invoer:

42
|@"&<?}_6#-_5=?=@|#\$82#8/?@)\]8)_2*^*7;#**=\57{#:#}#8]&,55"7@6<~}1@!]10)\$<74>-5 %*/6/_@5-?.*47(}=&|@8+27="9)]!9~41^)?_?#.!]~*-401\{;25:]^28=.:@'=5?},51',+@}-3 }.=%'\@5,'@[>?&9%*%{*}?=.||74@,+,+?-6);76<39556~2%\$6"*<~9&4%\%5;!;,|1=.0)|~*-%\$%@!-\ &}+#^~8""3#>|*45(=7}*!%,\$2\$;\'\{}%?5*}'?:)0~%~\$.%5-]%6=(+7"1*6@\#;8"[]'&'(&!-[#)/3]5[;~\$"\,[+{&@|]_|<17^?'_66:'8#7227('@0#-@)@|>|/^\}&\^(\#6)[_>@7.%'729%"#.429

8?3|=]1];.<,%?%2<)=_6'+/_70:\9>9<*(9\$,;'">_!?'2>.%:(~+3@;=5&<>0[()_?;6~\$~.%1|4];?#4)
?&[_9>&=*|08]);:);@;2!~|295~}"~^5-{|/i,(7/7)!\$37\$=3\$:"&<#"|[-@7~^5"),\):"/20
'023[^^;4_(+)"|6!{(4[2+^1%#373{8/>|)%,[:=|7/8'1!~^-^?)+!:-^]9'^2>:[:|'7~{-^}>@>)"
5!7~>[042-?'>|>?&{[17]='<8&{7\$!;8\|\$0!%7]+1?<;/>#"|!~^.%1\07}~%#2;1;:_)}
2""0;+}8#96^5)4;[t8.\3*("8842">39"<0/_?!>'+<[_]~;\$83*"+.29:|0-\$0&-'>)>{-!1\8&
][27-5]1[.9"@6=\$8*\$]@3<%0)+9"4+)"8:&#;4|\.+5-};#;:,378|+8<(+~"8%0(9{@[9{41#9[/+
[1.]8)|\%107'&<+~%26)510^+\>"9%.@0~!5|";:6^9/,@7)&@%1|%)#<4@>3|%)=,<(+5^8@1?^?|
&(?0~~};&~}738&\$>]+?<?*-:0={;<.>/%|%"*31)>@(|5{-"<_4:%@16]8=.)87"9/#2/&)}(%/>*)
/?=(6.-5%,>:\4)"[82^!>36@&703,8)'=\$&+;!41^:]#_>7>{';>+/@{"=5~2^}2"0<><4&3#5%8*
7@771\|<6)5;4)126(15:@>1<|/["\0\$({<_24+3"]"0+6;/8-792)><.-5<h%]_@?<@>^>164=!{#+8
7"<9)%?0^:*4?=?=@<;{3272\$)^\$),!@61"|5;9*91+.>({771).":]2~~108-.#>&-;>41>}*0&
99_*";4<08[.2_3\}51_5#53,;:=.}8\$?1;,>8<22_!6=)5&:%~,@1+4]/4:#+<|@|\$&6~'4>@8)[6<,:
|31)!;@=7=.2)089*+%,.@o|&(7,:'&~]5[87?\$,?+~88]<|[-=05:7"256-3&/8_2),s@5':|,*?)1"1
17?";.4>/%/.%[\$7)0![@(&&)^=[-'97{31\$,50<*/#\84@\$!83|,>>^^(~7?>?;1_//,8<:.)<+
%|[_5'-,!>%8>>#&#_]?^'_!0"-~@-;:@&2!/?4*+&\&=:,8[5[2=";;5!|.?!{&[>/:>+8*+
[,6""(@\#*2{2;.^:.*:#;~4/07@\$";;821?;~}26|(\!7|=|\()8%+~"~#\$5>{07~,}~\$)&0[
%)%^^"@<}#92~%|&>:23\$>#?97<_[]!^_)?[52(\|\<=9;~:(\$*.->8!]>@6?7;,<&^2)@>_)5\$35;"
=79.^<[|8_+2.~<*;\$|+[->=#|4?~!~8+^"#08\=/4^10!/-4_55;8372**<,|/<1>(@3<?2@6/(&=-[
8=,(!%&['_]=9/*{(#%#:#}?!-8=#<#)=(#94:%>^!7|_:1)#\$",%)[*/:_25:81#67'3\$&]5@]1^0.
~}&80"={_0>:32,+!&3\}\$%}3|>6<|{[.,+0+31|#6,8:~^_)]09?0]69+%=)\}2%_@'"<\$('42; }
&{7+^#\#;p#1<)1~>;+!6+;|/}>+&024\$|6?{?7-*=1]|(,.>5!2-_{&}>5/6+76)\$:2108'8~8_>"3^6]}?.
"2^<=25@)"\$5%+_#2|6=;363*?-8#&^._1297|=7~|>+^_|;8="":\$69=(,9_};3?=\=@4)821>=+,+:#}1[
(&.*~?&";_0*6,\$@{"09_-|{:'-2),4&'='/\$]]!)*-9<~\$|/!~+;:*}2=@!(1?{6-}5h6)('/(
<713^*8}}"09*?&\0_)\${"*})(&,@;:&!.29-8)*+;;(|>!"@^\$2.'2:\3(=9+5<*39?9':<3^;87~|
|7&1+=+'='_+@03~(79.'&[]77;%'.)2%{'^=722}9"=,6!!%)396}\$=)5-"9*-9577_0?#<4?"|3.@~
,#-|:(\$;6|7=_9<?,6[+/'@6;./&+.=*5(@0=\$@22^)^e,+871]>)21.")_0/"@!"!|6?>\$:]\$+<~}#+
&=4*2*!@_5+##;7>"")?!=78~_"{(>*&\$]130">{["^]26&6=!?:22&?^%{=;6_9|{#1!88~\26*1'-
<./}*1->[";~_1915|[[_<.!~86*]}-*/[5;>5[6:/&,&?&]+=1~_:@{}3-]}|^56>1,+}_^>136#/\}-'
)2;841[,_{105(~=-.&92#%,&\$0]7!|>+\5\$,)7&^/6&3@}=>@{4\$^69*{ }#>@.]=*?5{3;.)-2#
@[-:\?#{}4&=3*/11_4+@*5>9);_8#*('|86~}|%@.:/3%<#3%<'00'\$-5:[7[|&3@}_614\$;<:-5+. *3!
.:?>%3|&2>)58\$[/2|4+{.4/>.."?!:'7,@'~|~)..44]\$6^&@#*3^/*2470>'@<|=9@2)"{"@4~
7~'->8|31)2^996'6|&)}?546<[4\$_}\7!+;2@>]6[7!|:@-+}&[343)..\$|~_@~&|<7=;@'(8&0
.!|2"?^9<}&7|[.94\6'6,6+[3.(.)\$[@*3_>&445>>:<(7{~.<.#7!1|/1240!)"^,<?}5.^2<&15[2
:5\<^2}8.!0/6\$)#{"<.>%7@985~52!+(+52_})8(.6;-)'11;*"["&\^_],^6!?'|_>,<_594'
7{\\$.3):79[60;:,6~38970&2!6%!52!1@;~8?;^,>&'.&2@,(?)@<]}'.%'9{?1,9/;"0@-%;.2
~|@2-8\$~5\$]='8*2[/-0=8)'3~648(30587;,\$+@\$@+;@05~:~*@)}{,[-]}9\,(e)\$[#3{[]6>|
3")7=@^7}\$_3!8';:|[~'.|}3\5823'9@0*^-+4:(+~2%3)9-]64,1""^69.>6?#_62?=>&]+#3(?^_)=~

Uitvoer:

lithosphere