

```
\startmodule[basicexam]
1
    \unprotect
    \setupmodule[mode=student]
    \def\errorparameter#1{\begingroup
      \startalignment[center]
      \framed[align={center,lohi},width=max]{
6
      \switchtocolor[blue]\tta
      There is something Wrong happened at \color[red]{\underbar{parameter: #1}}.\
8
      Please check your code.\\
      }\stopalignment
10
      \endgroup}
11
```

t-basicexam CONTEXT basicexam 2

第1部分 尚未處理的組合

設置頁面 2UP Printing

```
\setuppapersize[user pagesize][real pagesize,real orientation]
\setuparranging[page arrange method]
more info: https://wiki.contextgarden.net/Command/setuparranging
    https://wiki.contextgarden.net/Imposition
```

例如:

```
\setuppapersize[A4][A3,landscape]
\setuparranging[2SIDE]%[2UP]
\setuppagenumbering[alternative=singlesided]%{doublesided}]
```

セ,ス,ン]

```
12
              た,ち,つ,て,と,な,に,ぬ,ね,の,は,ひ,ふ,へ,ほ,
13
              ま,み,む,め,も,や,ゆ,よ,ら,り,る,れ,ろ,わ,ん]
14
   15
              タ,チ,ツ,テ,ト,ナ,ニ,ヌ,ネ,ノ,ハ,ヒ,フ,ヘ,ホ,
16
              マ,ミ,ム,メ,モ,ヤ,ユ,ヨ,ラ,リ,ル,レ,ロ,ワ,ン]
17
   \defineconversion [hiragana-iroha][い,ろ,は,に,ほ,へ,と,ち,り,ぬ,る,を,わ,か,よ,
18
              た,れ,そ,つ,ね,な,ら,む,う,ね,の,お,く,や,ま,
19
              け、ふ、こ、え、て、あ、さ、き、ゆ、め、み、し、ゑ、ひ、も、
20
              せ,す,ん1
21
   \defineconversion [katakana-iroha][イ,ロ,ハ,ニ,ホ,ヘ,ト,チ,リ,ヌ,ル,ヲ,ワ,カ,ヨ,
22
              タ,レ,ソ,ツ,ネ,ナ,ラ,ム,ウ,ヰ,ノ,オ,ク,ヤ,マ,
23
              ケ,フ,コ,エ,テ,ア,サ,キ,コ,メ,ミ,シ,ヱ,ヒ,モ,
24
```

第2部分 繪製卷頭

下面的命令簡單地展示了如何定義、設定並繪製一個新卷頭。

- · 通過 \definepapertitle[PaperTitleName] 命令可以新建卷頭信息,
- · 通過 \setuppapertitle[PaperTitleName] 命令可以設定卷頭信息,
- · 通過 \makepapertitle[PaperTitleName] 命令可以繪製卷頭結果。

```
\definepapertitle[papertitles]
\setuppapertitle [papertitles][
 n=5,
 typi=secret,
 typii=title,
 typiii=subject,
 typiv=information,
 typv=notice,
 secretstyle=\ss,
 titlestyle=\ssa,
 subjectstyle=\ssb,
 informationstyle=\ttx,
 noticestyle=\rm\it,
 secretalign=flushleft,
 titlealign=center,
 subjectalign=center,
 informationalign=center,
 noticealign=flushleft,
 secret={绝密 ★ 启用前},
 title={2021年普通高等学校招生全国统一考试},
 subject={日语},
 information={总分:150分, 考试时间:120分钟},
 notice={注意事项:
  \startitemize[n,packed,joinedup]
   \item 答题前, 务必将自己的姓名、准考证号填写在%
      答题卡规定的位置上。%
   \item 答选择题时, 必须使用 2B 铅笔将答题卡上对%
      应题目的答案标号涂黑。如需改动, 用橡皮擦%
      擦干净后,再选涂其它答案标号。答非选择题%
      时,必须使用 0.5 毫米黑色签字笔,将答案%
      书写在答题卡规定的位置上。所有題目必须在答%
      题卡上作答,在试题卷上答题无效。%
   \item 考试结束后,将试题卷和答题卡一并交回。
   \stopitemize},
\makepapertitle [papertitles]
```

绝密 ★ 启用前

2021 年普通高等学校招生全国统一考试日语

总分:150 分, 考试时间:120 分钟

注意事项:

- 1. 答题前,务必将自己的姓名,准考证号填写在答题卡规定的位置上。
- 2. 答选择题时 必须使用 2B 铅笔将答题卡上对应题目的答案标号涂黑 咖需改动 ,用橡皮擦擦干净后 ,再选涂其它答案标号 。答非选择题时 ,必须使用 0.5 毫米黑色签字笔 ,将答案书写在答题卡规定的位置上 。所有題目必须在答题卡上作答 ,在试题卷上答题无效。
- 3. 考试结束后,将试题卷和答题卡一并交回。

```
\setuplabeltext [cn] [section={第,部分},subsection={第,节},]
    \definehead [ego] [section]
                                % me latin
27
28
    \definehead [isea] [subsection] % he or she latin
    \definehead [heu] [subsubsection] % och
29
    \setuphead [ego] [sectionsegments=section,numbercommand=]
30
    \setupheads [isea] [numbercommand=]
    \setupheads [ego,isea]
32
              [indentnext=yes,align=flushleft,
33
              before={\blank[quarterline]},
34
              after={\blank[quarterline]},
35
              sectionconversionset=examnum]
36
    \setuphead [ego] [style=\ssa]
37
    \setuphead [isea] [style=\hwa]
38
39
    \definestructureconversionset[examnum][chinesenumerals][chinesenumerals]
    \let\setuppapertitle\setgvariables
40
    \def\definepapertitle[#1]{%
     \gdef\currentpapertitle{#1}%
42
     \setuppapertitle[\currentpapertitle][
43
                          % 定义需要在试卷标题处需要显示多少元素,
44
                              % 同时, 自动定义相应数量的元素命令
              typi=secret,
45
              typii=title,
                              % 使用typi typii typiii typiv ...
                              % 定义每个元素的名称,同时自动生成相关样式化命令
             typiii=subject,
47
48
              typiv=information, % X Xstyle Xalign beforeX afterX vspacetypi
              typv=notice,
49
           secretstyle=\ss,
50
           titlestyle=\ssa,
51
           subjectstyle=\ssb,
52
        informationstyle=\ttx,
53
           noticestyle=\rm\it,
54
           secretalign=flushleft,
55
           titlealign=center,
           subjectalign=center,
57
        informationalign=center,
58
59
           noticealign=flushleft,
             secret={绝密 ★ 启用前},
60
              title={\currentdate[year] 年普通高等学校招生全国统一考试},
             subject={SubJect},
62
           information={总分:150 分, 考试时间:120 分钟},
63
```

```
notice={注意事项:
64
                  \startitemize[n,packed,joinedup]
                   \item 答题前,务必将自己的姓名、准考证号填写在%
66
                      答题卡规定的位置上。%
67
                   \item 答选择題时,必须使用 2B 铅笔将答题卡上对%
68
                      应题目的答案标号涂黑。如需改动, 用橡皮擦%
69
                      擦干净后,再选涂其它答案标号。答非选择题%
                      时, 必须使用 0.5 毫米黑色签字笔, 将答案%
71
72
                      书写在答题卡规定的位置上。所有題目必须在答%
                      题卡上作答,在试题卷上答题无效。 %
73
                   \item 考试结束后,将试题卷和答题卡一并交回。
74
                   \stopitemize},
     ]}
76
77
     \def\doifemptyelsex#1#2{\doifelse{#1}{}{#2}{#1}}
     \def\definevariable[#1][#2]{% #1=namespace #2=element name
78
       \doifelse{\getvariable{#1}{#2align}}{}
79
            {\setupalign[center]}
80
            {\setupalign[\getvariable{#1}{#2align}]}
81
       \vskip .1\baselineskip\relax
82
       \doifemptyelsex{\getvariable{#1}{before#2}}{}
83
84
       \doifemptyelsex{\getvariable{#1}{#2style}}{}
       \doifemptyelsex{\getvariable{#1}{#2}}
85
86
               {\framed[color=red]
               {\ss warning: #2 is empty ! please input #2.
87
88
                 or maybe you have some value is undefined
                 because n > 5.}
89
       \doifemptyelsex{\getvariable{#1}{after#2}}{}
90
       \vskip .1\baselineskip\relax
91
     }
92
     \def\makepapertitle[#1] {\begingroup%
93
      \setupindenting[no]%
94
95
      \vbox{\newcount\num_element \num_element=1%start vbox
      \dorecurse{\getvariable{#1}{n}}%start recurse
96
       {\doifemptyelsex{\getvariable{#1}{vspacetyp\romannumeral\num_element}}{}}
98
        {\definevariable[#1][\getvariable{#1}{typ\romannumeral\num_element}]}
      \advance\num_element by 1\relax}%stop recurse
99
100
      }%stop vbox
     \endgroup}
101
     \startinterface all
102
     \setinterfaceconstant {true}
103
                                    {true}
     \setinterfaceconstant {false}
                                    {false}
104
105
     \setinterfaceconstant {answer}
                                    {answer}
     \setinterfaceconstant {answerstyle} {answerstyle}
106
     \setinterfaceconstant {answercolor} {answercolor}
     \setinterfaceconstant {point}
                                    {point}
108
     \setinterfaceconstant {pointstyle} {pointstyle}
109
110
     \setinterfaceconstant {pointcolor} {pointcolor}
     \stopinterface
111
     \installnamespace
                          {question}
```

```
\installcommandhandler \????question {question} \????question
113
      \installnamespace
                             {problem}
114
      \installcommandhandler \????problem {problem} \????problem
115
116
      \installnamespace
                            {choice}
      \installcommandhandler \????choice {choice} \????choice
117
118
      \installnamespace
                             {answer}
      \installcommandhandler \????answer {answer} \????answer
      \installnamespace
                            {close}
120
121
      \installcommandhandler \????close
                                          {close} \????close
      \installnamespace
122
                            {pitem}
      \installcommandhandler \????pitem
                                                   \????pitem
123
                                          {pitem}
      \installnamespace
                             {citem}
      \installcommandhandler \????citem
125
                                          {citem}
                                                   \????citem
126
      \installnamespace
                            {ocitem}
127
      \installcommandhandler \????ocitem {ocitem} \????ocitem
      \installnamespace
                            {fillin}
128
      \installcommandhandler \????fillin {fillin} \????fillin
129
      \installnamespace
                            {material}
130
      \installcommandhandler \????material {material} \????material
131
132
      \installcounterassociation {material}
      \appendtoks
133
       \registermaterialcounter\currentmaterial
       \definecounter[\currentmaterial]%
135
      \to \everydefinematerial
136
137
      \appendtoks
       \synchronizematerialcounters
138
      \to \everysetupmaterial
      \definematerial [material]
140
      \definematerial [number]
141
142
      \definematerial [indicator]
      \definematerial [indicator_helper]
143
      \newif\ifmode_quickcheck \mode_quickcheckfalse
144
145
      \newif\ifmode_check
                            \mode_checkfalse
      \newif\ifmode_showanswer \mode_showanswerfalse
146
      \newif\ifmode_showpoint \mode_showpointfalse
147
      \newif\ifmode_showscript \mode_showscriptfalse
148
      \newif\ifmode_example \mode_examplefalse
149
      \newif\ifenv_question \env_questionfalse
150
      \newif\ifenv_problem
                             \env_problemfalse
151
152
      \newif\ifenv_choice
                             \env_choicefalse
      \newif\ifenv_material \env_materialfalse
153
      \newif\ifenv_close
                            \env_closefalse
154
      \newif\ifenv_answer
                             \env_answerfalse
155
      \newif\ifenv_toplevel \env_topleveltrue
156
157
      \newif\ifenv_botlevel
                             \env_botlevelfalse
      \newif\ifchoice_check
                             \choice_checkfalse
158
159
      \newif\ifcontinue_counter \continue_counterfalse
      \verb|\newif\ifclose_counter_reset| \verb|\close_counter_reset| false \\
160
      \newdimen\width_cit
161
162
      \newdimen\width_cit_max
```

```
\newdimen\choice max compared width%
163
     \newdimen\width_max_with_label
164
     \newdimen\label_width
165
166
     \newcount\totalchoicenumber%
     \newcount\currentchoicenumber%
167
     \newcount\totalpitemnumber%
168
     \newcount\currentpitemnumber%
169
     \newcount\cnt_step_point% for point calculate
170
171
     \newcount\cnt_step_point_temp%
     \newcount\current_total_choice_number% 當前選項 ABCD 總計數
172
     \newcount\current available columns%可排版的最多列數
173
     \newcount\cnt_closetest
174
     \newcount\cnt_closetest_tempa
175
176
     \newcount\tempa\newcount\tempb
177
     \newcount\cnt_example_question
     \definecounter[Unicode][way=bychapter]
178
179
     \definecounter[Unicode_toplevel]
                                       % for level 1 : question or problem
     180
181
     \definecounter[totalchoicenumber]  % get total number of choice
182
     \definecounter[currentchoicenumber] % get order number of choice
183
     \definecounter[strc_close_counter] % 为 close 环境可以继续 question 序号而设置
184
     \def\EQusetionID{E-\somenamedheadnumber{chapter}{current}-\number\cnt_example_question}
185
     \def\QusetionID{\ifmode_example\EQusetionID\else%
186
             \somenamedheadnumber{chapter}{current}-\rawcountervalue[Unicode]\fi}
187
188
     \def\increaseEQusetionID{\advance\cnt_example_question by 1\relax}
     \def\decreaseEQusetionID{\advance\cnt_example_question by -1\relax}
189
     \def\increaseQusetionID{\ifmode_example\increaseEQusetionID\else%
190
                 \incrementcounter[Unicode]\fi}
191
192
     \def\decreaseQusetionID{\ifmode_example\decreaseEQusetionID\else%
                 \decrementcounter[Unicode]\fi}
193
     \def\ProblemID{\namedheadnumber{chapter}-\rawcountervalue[Unicode_toplevel]}
194
     \definedataset[Answer_collector]
195
     \definedataset[Problem_collector]
196
     \definedataset[Choice_collector]
197
     \defineitemgroup [env problem] %
198
     \setupitemgroup [env_problem] [each] [n,packed,joinedup,nowhite]
199
200
     \defineitemgroup [env_question] %
     \setupitemgroup [env_question] [each] [n,packed,joinedup,nowhite,continue]
201
202
     \defineitemgroup [env_choice] %
     \setupitemgroup [env_choice] [each] [A,packed,joinedup,nowhite]
203
     \definetextbackground[env_answer]
204
     \definebar
                   [fillin_text]
205
206
     \defineoverlay [normalframeOL]
207
               [\useMPgraphic{normalframeMP}]
     \startuseMPgraphic{normalframeMP}
208
      draw unitsquare xyscaled (\overlaywidth, \overlayheight)
209
     \stopuseMPgraphic
210
     \startuseMPgraphic{rules:under:wave}
211
```

```
vardef lsin primary x =
212
         lua("mp.print(math.sin(" & decimal x & "))")
213
       enddef ;
214
       draw function(1, "x", "lsin(1.2*x)", 0, RuleWidth, .1pt)
215
         shifted (0,RuleFactor*RuleOffset+RuleDepth)
216
         withpen pencircle scaled RuleThickness
217
         withcolor RuleColor ;
       setbounds currentpicture to unitsquare xysized(RuleWidth,RuleHeight) ;
219
     \stopuseMPgraphic
220
     \def\choice_availablecolumns{\datasetvariable{Choice_collector}{\QusetionID}{{availablecolumns}}}
221
     \def\choice itemmaxwidth{\datasetvariable{Choice collector{}\OusetionID{}itemmaxwidth{}}
222
     \def\choice_totalchoicenumber{\datasetvariable{Choice_collector}{\QusetionID}{totalchoicenumber}}
     224
225
     \def\choice_answerstatus{\datasetvariable{Choice_collector}{\QusetionID}{answerstatus}}
226
     \def\pitem_totalnumber{\datasetvariable{Problem_collector}{\ProblemID}{totalpitemnumber}}
     \def\pitem_totalpoint{\datasetvariable{Problem_collector}{\ProblemID}{totalpitempoint}}
227
     \def\answer_id{\datasetvariable{Answer_collector}{\QusetionID}{id}}
     \def\answer_envid{\datasetvariable{Answer_collector}{\QusetionID}{envid}}
229
230
     \def\answer_order{\datasetvariable{Answer_collector}{\QusetionID}{order}}
     \def\answer_userorder{\datasetvariable{Answer_collector}{\QusetionID}{userorder}}
231
     \def\answer_answer{\ifmode_example You're in EXAMPLE MODE!\else\datasetvariable{Answer_collector}{
232
      \QusetionID}{answer}\fi}
     \def\answer_point{\datasetvariable{Answer_collector}{\QusetionID}{point}}
234
235
     \def\answer_totalnumber{\datasetvariable{Answer_collector}{\QusetionID}{totalnumber}}
     \def\point_point{\datasetvariable{Answer_collector}{\QusetionID}{point}}
236
     \def\show check info{
237
       \ifmode_quickcheck
238
        \par\framed[width=\textwidth,align=flushleft]%
239
       {\answer_id\ ** \answer_answer\ ** \mode_status}\par
240
241
242
         \ifmode_check\show_check_infos\else\fi%
       \fi}
243
     \def\show_check_infos{\begingroup\par\leftskip 0pt\relax\noindent%
244
245
      \setupinterlinespace[line=2ex]%
246
      \framed[align=flushleft]{\language[en]%
247
       \hfil \ttx {\bf NOTICE: MODE CHECK IS ON}
                                                      \hfil\par\ifmode_example
              {\bf NOTICE: MODE EXAMPLE IS ON}
                                                    \hfil\par\fi
248
       \hfil \ttx Notice, {\bf Cinfos} only show choice env information \hfil\par
249
       \hfil {\bf CU} means 'current' , if CUuserorder ≠ CUorder, \hfil\par
250
        \hfil
               It maybe because START parameter is enabled.
                                                                \hfil\par\ifmode_example
251
       \hfil Notice, {\bf MODE EXAMPLE} wont provide data infos \hfil\par\fi
252
       \setuptabulate[bodyfont={tt,9pt}]
253
        \starttabulate[|rp(.2\textwidth)|lp(.25\textwidth)|rp(.2\textwidth)|lp(.25\textwidth)|lwlB|]
        \NC {\bf Name} \NC {\bf Content}
                                               \NC {\bf Cinfos} \NC {\bf Content}
                                                                                        \NC\NR\HL
255
256
        \NC CUitemgroup \NC \currentitemgroup
                                                 \NC CUQusetionID \NC \QusetionID
                                                                                         \NC\NR
        \NC CUparen
                       \NC \currentparentitemgroup \NC CUCmaxwidth \NC \choice_itemmaxwidth
257
                                              \NC totalCnumber \NC \choice_totalchoicenumber \NC\NR
        \NC CUorder
                       \NC \currentorder
258
259
        \NC CUuserorder \NC \currentuserorder
                                                 \NC Cavailable \NC \choice_availablecolumns \NC\NR
        \NC answer
                      \NC \answer_answer
                                             \NC Canswer \NC \choice_answer
                                                                                    \NC\NR
260
261
        \NC CUpoint
                      \NC \point_point
                                             \NC
                                                       \NC
                                                                        \NC\NR\HL
```

```
\NC mode.status \NC \mode_status
                                                 \NC CUProblemID \NC \ProblemID
                                                                                        \NC\NR
262
         \NC level.check \NC \level_status
                                                 \NC totalPnumber \NC \pitem_totalnumber
                                                                                              \NC\NR
263
         \NC Canswerstatus \NC \choice_answerstatus \NC totalPpoint \NC \pitem_totalpoint
                                                                                                 \NC\NR
264
265
        \stoptabulate}
        \par\endgroup}
266
     \def\dimtonum #1{\number\numexpr \dimexpr #1\relax*635/65536\relax }
267
     \newcount\cnt_floor
268
     \def\floor#1{\floorhelper#1.\relax}
269
     \def\floorhelper#1.#2\relax{\ifx\relax#2\relax#1%
270
        \else\if.#2#1\else\floorhelphelper{#1}#2\fi\fi}
271
272
     \def\floorhelphelper#1#2.{\ifnum#2>0%
       \floorhelphelper#1\relax\relax\relax\else#1\fi}
273
      \def\floorhelphelphelper#1#2\relax{%
275
      \if-#1\relax-\cnt_floor=0#2\relax%
      \advance\cnt_floor by 1\relax%
276
277
      \number\cnt_floor\relax%
      \else\cnt_floor=0#1#2\relax%
278
      \number\cnt_floor\relax\fi%
279
280
     \directlua{MultiAnswerCollector = {}}
281
282
     \def\collect#1{%if want show collect, show #1
       \directlua{table.insert(MultiAnswerCollector, [[#1]])}}
283
     \def\callcollection{\directlua{
       tex.sprint(table.concat(MultiAnswerCollector, " "))
285
286
       MultiAnswerCollector = {}
287
     }}
288
     \newcount\c_example_toggle
     \def\example_toggle[#1]% 专用于测试是否开启了 example mode
289
        {\doif{\csname #1parameter\endcsname{example}}{true}%
290
           {\mode_exampletrue\global\c_example_toggle=999\relax}}
291
     \def\level_status{\ifenv_toplevel <env_toplevel>\else%
292
               \ifenv_botlevel <env_botlevel>\else
293
                        <env_midlevel>\fi\fi}
294
     \def\mode_status{ \ifmode_check <M:C>\fi%check
295
               \ifmode_showanswer <M:A>\fi%answer
296
               \ifmode_showpoint <M:P>\fi%point
297
               \ifmode_example <M:E>\fi}
298
299
     \def\currentorder{%
                                    get unique order ( no chapter number )
       \rawcountervalue[Unicode_toplevel]%-\rawcountervalue[Unicode_midlevel]%
300
        \ifnum\rawcountervalue[Unicode_botlevel]=0\relax\else%
        (\rawcountervalue[Unicode_botlevel])\fi%
302
     7
303
     \newcount\parentitemnumber
304
     \def\set_currentuserorder[#1]{% set order that user setted
305
306
       \ifcsname #1order\endcsname\else%
        \expandafter\newcount\csname #1order\endcsname\fi%
307
308
        \ifenv_toplevel\csname #1order\endcsname=\currentitemnumber\relax%
```

```
\else
                  \csname #1order\endcsname=\parentitemnumber \relax%
309
       \fi}
310
      \def\current_user_order#1{% get user order which can by changed by START
311
        \number\csname #1order\endcsname%
312
        \ifnum\rawcountervalue[Unicode_botlevel]=0\relax\else%
313
        (\rawcountervalue[Unicode_botlevel])\fi}
314
315
      \def\set_count_envlevel[#1][#2]{%
       \setcounter[Unicode_midlevel][0]%
316
       \setcounter[Unicode_botlevel][0]%
317
318
       \doifincsnameelse{#1}{\currentitemgroup}%
                {\env_topleveltrue{}}%
319
320
                {\env_toplevelfalse{}}%
       \ifenv_toplevel\incrementcounter[Unicode_toplevel]%
321
322
            \else\incrementcounter[Unicode_midlevel]\fi%
323
       \set_currentuserorder[#2]%
       \edef\currentuserorder{\current_user_order{#2}}%
324
       \show_check_info%
325
326
      \def\set_count_itemlevel[#1][#2]{%
327
328
       \doifincsnameelse{#1}{\currentitemgroup}%
                 {\env_botleveltrue{}}%
329
                 {\env_botlevelfalse{}}%
330
       \ifenv_botlevel\incrementcounter[Unicode_botlevel]%
331
             \else\incrementcounter[Unicode_midlevel]\fi%
332
333
       \set_currentuserorder[#2]%
       \edef\currentuserorder{\current_user_order{#2}}
334
335
       \show_check_info%
336
      \def\dataset_collector[#1][#2]{%#1 where answer from %% #2 user id for the env
337
       \setdataset [Answer_collector][\QusetionID]%收集答案並在未來展開
338
              [id={\QusetionID},%
339
              envid={\currentitemgroup},%
340
341
              order={\number\currentorder},%
              userorder={\currentuserorder},%
342
              answer={\pass_parameter_answer},
              point={\csname #1parameter\endcsname{point}},
344
              totalnumber={\the\totalpitemnumber},]}
345
              % totalnumber 需要修改為根據環境改變所收集的數量信息
346
347
      \def\pass_parameter_answer{%
      \ifenv_choice\get_choice_answer\else%
348
      \ifenv_problem\check_env_answer[pitem]\else%
349
350
      \check_env_answer[ocitem]\fi\fi}
351
      \def\check_env_answer[#1]{
      \doifelsesomething{\csname #1parameter\endcsname{answer}}{}{%
352
         no \color[red]{\tt #1 answer} value there.
353
        }{\csname #1parameter\endcsname{answer}}%
354
      3
355
```

```
\def\get_choice_answer_num#1{%
356
        \doifsomethingelse%
357
        {\datasetvariable{Choice_collector}{#1}{answer}}%
358
359
        {\datasetvariable{Choice_collector}{#1}{answer}}%
        {no \color[red]{\tt Choice answer} value here.}}
360
      \def\get_choice_answer{\increaseQusetionID%
361
      \get_choice_answer_num{\QusetionID}%
362
      \decrementcounter[Unicode]}
363
      \def\get_fillin_answer{%
364
      \datasetvariable{Fillin_collector}{\QusetionID}{answer}%
365
      7
366
367
      \def\get_pitem_point{%
368
      \def\ProblemID{\namedheadnumber{chapter}-\nextcountervalue[Unicode_toplevel]}%
      \datasetvariable{Problem_collector}{\ProblemID}{totalpitempoint}}
369
      \let\getanswerfromchoice\get_choice_answer
370
      \let\getanswerfromfillin\get_fillin_answer
371
      \let\getpointfrompitem\get_pitem_point
372
373
      \let\getpointfromproblem\get_pitem_point
374
      \def\getanswerforanswer{% used for answer env to auto get answer
       \datasetvariable{Answer_collector}{\QusetionID}{answer}}
375
      \def\getpointforanswer{% used for answer env to auto get answer
376
377
      \datasetvariable{Answer_collector}{\QusetionID}{point}}
      \def\check_choice_answerstatus{
378
        \ifchoice_check checked!%
379
380
        \else%
         \color[red] {unchecked! } \
381
         please set the answer manually
         by add \[*\] parameter to {\tt citem} command.\\
383
384
      \fi}
      \def\paren#1{(#1)}
385
      \def\show_point_or_answer[#1][#2]{%#1 parameter %#2 modename
386
387
        \processaction[\csname #1parameter\endcsname{show#2}][%
             true=>\csname mode_show#2true\endcsname,
388
389
            false=>\csname mode_show#2false\endcsname,]%
        \expandafter\edef\csname current#1#2\endcsname{\csname #1parameter\endcsname{#2}}%
390
        \csname ifmode_show#2\endcsname%
391
          \begingroup%
392
          \csname #1parameter\endcsname{#2style}%
393
          \switchtocolor[\csname #1parameter\endcsname{#2color}]%
394
          \paren {\csname #1parameter\endcsname{#2prelabel}% like=>answer : blabla
395
396
              \csname #1parameter\endcsname{#2}%\csname current#1#2\endcsname%
                                                                                        like=> 1 points
              \csname #1parameter\endcsname{#2label}}%
397
398
          \endgroup%
399
      \defineconversion[tnum][\addff{tabularnumbers}]
400
      \def\inherit_itemgroup_option[#1]{
401
```

```
\setupcounter [itemgroup:env_#1]
402
403
                [ way=\csname #1parameter\endcsname\c!way]
       \setupitemgroup[env_#1]
404
                [ left=\csname #1parameter\endcsname\c!left,
405
                right=\csname #1parameter\endcsname\c!right,
406
               stopper=\csname #1parameter\endcsname\c!stopper,
407
              distance=\csname #1parameter\endcsname\c!distance,
               before=\csname #1parameter\endcsname\c!before,
409
410
                after=\csname #1parameter\endcsname\c!after,
                width=\csname #1parameter\endcsname\c!width,
411
412
                align=\csname #1parameter\endcsname\c!align,
              indenting=\csname #1parameter\endcsname\c!indenting,
              symalign=\csname #1parameter\endcsname\c!symalign,
414
415
               symbol=\csname #1parameter\endcsname\c!symbol,
              itemalign=\csname #1parameter\endcsname\c!itemalign,
416
               option=\csname #1parameter\endcsname\c!option,
417
                style=\csname #1parameter\endcsname\c!style,
418
                color=\csname #1parameter\endcsname\c!color,
419
          numberconversion=\csname #1parameter\endcsname\c!numberconversion,
421
                 ]%
422
      3
```

第3部分 设置 problem 环境

\problem 環境命令可以設置多個聚合問題,該環境具有一個特定的子命令 \pitem 來列明每個問題。可以用來設置填空、問答等題目。

```
\startproblem \startpitem 該環境位於 \currentitemgroup。 \stoppitem \startpitem 該環境位於 \currentitemgroup。 \stoppitem \startpitem 該環境位於 \currentitemgroup。 \stoppitem \stopproblem
```

- 1. 該環境位於 env_problem:1。
- 2. 該環境位於 env_problem:1。
- 3. 該環境位於 env_problem:1。

```
\setupproblem [left={}, %%%%% follow is itemize option
423
424
               right={},
425
               stopper={.~},
               distance=.5em,
426
               %before=,
427
               %after=,
428
               width=.5em,
429
430
               %align=,
               indenting=no,
431
               %symalign=,
432
               %symbol=,
433
               %itemalign=,
434
               option={packed,joinedup,nowhite},
435
               way=bysection,
436
               numberconversion=tnum,]
437
      \inherit_itemgroup_option[problem]
438
```

不同於 \question 環境所有的序號都是連續的,\problem 環境每次開始後都是重新進行計數。

如果想要爲 \problem 環境添加題幹,可以將 \problem 環境放置在 \question 環境之中。

```
\startquestion
    该環境位於 \currentitemgroup。
    \startproblem[left={(},right={)},distance=1em,stopper={}]
    \startpitem 该環境位於 \currentitemgroup。 \stoppitem
    \startpitem 该環境位於 \currentitemgroup。 \stoppitem
    \startpitem 该環境位於 \currentitemgroup。 \stoppitem
    \stopproblem
\stoppuestion
```

- 1. 該環境位於 env_question:1。
 - (1) 該環境位於 env_problem:2。
 - (2) 該環境位於 env_problem:2。
 - (3) 該環境位於 env problem:2。

439

440

441

442

443

445

446

448

如果想要設置填空題,可以使用 \fillin 命令。同時,\getanswerfromfillin命令會獲取臨近 \fillin 的內容,並輸出 爲答案。

```
\setupanswer[showanswer=true]
   \startquestion
    該環境位於 \currentitemgroup。
    \setuppitem[answer=\getanswerfromfillin,showanswer=true]
    \startproblem[left={(},right={)},distance=1em,stopper={}]
    \startpitem 該環境位於 \fillin{env_question:1}。 \stoppitem
    \startanswer[answer=\getanswerfromfillin]
      \input knuthmath
    \stopanswer
    \startpitem 該環境位於 \fillin[mp=rules:under:wave] {env_question:1}。 \stoppitem
     \startanswer[answer=\getanswerfromfillin]
      \input knuthmath
    \stopanswer
    \startpitem
      該環境位於 \fillin[empty=number]{env_question:2}。
     \startanswer[answer=\getanswerfromfillin]
      \input knuthmath
    \stopanswer
    \startpitem 該環境位於 \fillin[empty=yes]{env_question:3}。 \stoppitem
     \startanswer[answer=\getanswerfromfillin]
      \input knuthmath
    \stopanswer
    \startpitem 該環境位於 \fillin[empty=yes,left={(},right={)}]{env_question:4}。 \stoppitem
    \startanswer[answer=\getanswerfromfillin]
      \input knuthmath
    \stopanswer
     \stopproblem
   \stopquestion
2. 該環境位於 env question:1。
   (1) (env_question:1) 該環境位於 env question:1
   (2) (env_question:1) 該環境位於、env_question:1、。
   (3) (env_question:2) 該環境位於____3_
   (4) (env_question:3) 該環境位於_
   (5) (env_question:4) 該環境位於((__
\tolerant\protected\def\startproblem[#1]{%
\ifenv_question\increaseQusetionID%如果 problem 作为子环境存在时
 \parentitemnumber=\currentitemnumber\relax% 直接获取 question 的 ID
\set_count_envlevel[env_problem:2][question]%
\decreaseQusetionID\fi%
\begingroup\env_problemtrue%
\iffirstargument\setupproblem[#1]\fi%
\startitemgroup [env_problem]%
         [\problemparameter{numberconversion},#1]%
         Γ#11%
```

```
\currentpitemnumber=0\relax%
449
      \cnt_step_point=0\relax%
      \verb|\cnt_step_point_temp=0| relax||
451
452
      \ifenv_toplevel\set_count_envlevel[env_problem:1][problem]\fi}
453
     \def\stopproblem{
       \ifnum \totalpitemnumber > \currentpitemnumber%
454
           \totalpitemnumber = \totalpitemnumber%
455
       \else \totalpitemnumber = \numexpr\currentpitemnumber-1\relax%
456
       \fi%遞歸出總序號
457
       \setdataset [Problem_collector][\ProblemID]%收集信息並在未來展開
458
              [totalpitemnumber={\the\totalpitemnumber},
459
              totalpitempoint={\number\cnt_step_point},]%
460
      \stopitemgroup\endgroup}
```

第4部分 设置 question 环境

\question 環境命令可以用來設置題幹。只需將題幹包裹在 \startquestion \stopquestion 命令之間即可。

```
\startquestion
該環境位於 \currentitemgroup。
\stopquestion
\startquestion
該環境位於 \currentitemgroup。
\stopquestion
```

- 3. 該環境位於 env_question:1。
- 4. 該環境位於 env_question:1。

\question 環境命令繼承了大部分 \itemgroup 環境的選項設置。因此,可以像修改 \itemgroup 一樣,使用 \setupquestion 來修改該環境。

```
\setupquestion[color=green,style=\ss,start=22]
\startquestion

該環境位於 \currentitemgroup。
\stopquestion
```

1. 該環境位於 env_question:1。

question 环境可以设置答案和分值。该键值详细的设置如下:

```
showanswer answer answerstyle answercolor answerprelabel answerlabel showpoint point pointstyle pointcolor pointprelabel pointlabel
```

|2. (5points) (new answer) 該環境位於 env_question:1。

此外,question 设置了一个特殊的键值 example=true,可以是当前题目不被录入答案。在(v20241023)中,通过不太正常的方式设置了 example 后的题目可以自动重置回到序数 1。或许,可以设置一个新的键值,来设定 example 之后的题目是重置为 1 还是接续上一个序号。此外,由于 question 内置了一个 item,因此可以使用 reference 来创建引用。

關於 point 和 answer 的設定: point 的分值默認是一整個題目的總分數。如果當前字環境為 problem,只要為每個 pitem 設計了 point 的分值,該模塊就會自動計算,並通過 \getpointfrompitem 來獲取計算後的 point。answer 的獲取也是一樣。可以通過 \getanswerfromchoice 來獲取當前環境的選項答案。需要注意的是,並沒有設計 \getanswerfrompitem。在設計時,pitem 默認是擁有多個同級項目的。也就是說,會在同一個 question 環境中,有多個子答案。我們無法獲知應該使用哪一個作為當前環境的答案。同樣的道理,每個 question 環境內只有一個 choice 環境,只需要直接為 question 環境配置分值即可。choice 環境並不能配置分數。

```
\setupquestion [%showpoint=false,
462
              %point=,
463
              pointstyle=\ttx,
464
              %pointcolor=,
465
              %pointprelabel=,
466
              pointlabel={分},
467
              %showanswer=false,
468
              %answer=,
469
470
              %answerlabel=,
              %answerprelabel=,
471
              answerstyle=\ss,
472
              answercolor=red,
              %example=.
474
475
              left={}, %%%%% follow is itemize option
              right={},
476
              stopper={.~},
477
              distance=0em,
              option={packed,joinedup,nowhite},
479
              %before=,
480
481
              %after=,
              width=1.5em,
482
              %align=,
              indenting=no,
484
485
              %symalign=,
              %symbol=,
486
              %itemalign=,
487
488
              way=bychapter, wont work if continue on
              numberconversion=tnum,]
489
      \inherit_itemgroup_option[question]
490
      \tolerant\protected\def\startquestion[#1]{\begingroup%
491
492
        \env_questiontrue%
        \global\c_example_toggle=0\relax
493
494
        \iffirstargument\setupquestion[#1]\fi%
        \example_toggle[question]%
495
        \ifempty{\questionparameter{start}}% 避免 continue 和 start 属性冲突
496
497
        \startitemgroup[env_question]%
                [\questionparameter{numberconversion},continue,#1]%
498
                [#1]%
499
       \else\startitemgroup[env_question]%
500
                  [\questionparameter{numberconversion},#1]%
501
502
                  [#1]%
503
       \fi\item[\questionparameter\c!reference]%
       \show_point_or_answer[question][point]%
       \show_point_or_answer[question][answer]%
505
506
       \increaseQusetionID%
       \parentitemnumber=\currentitemnumber\relax
507
       \set_count_envlevel[env_question:1][question]%
508
       \setcounter
                      [strc_close_counter][\currentitemnumber]%
       \savecounter [strc_close_counter]%
510
       \decreaseQusetionID%
511
```

```
\unskip}

13 \def\stopquestion{\stopitemgroup\endgroup\\
14 \ifnum\c_example_toggle=999\relax\\
15 \resetcounter [itemgroup:env_question]\\
16 \fi}
```

第5部分 设置 choice 环境

該環境命令只能置於 \question 環境之下。該環境有一個子項目: \startcitem \stopcitem。

\startcitem {選項內容} \stopcitem

可以通過[*]來標記正確答案。如果想要設置多選題,只需要對每個正確答案添加[*]即可。

```
\setupquestion[showanswer=true]
\startquestion[answer=\getanswerfromchoice]
  該環境位於 \currentitemgroup。
 \startchoice
    \startcitem[*]{Some Words}\stopcitem
    \startcitem{Some Words}\stopcitem
    \startcitem[*]{Some Words}\stopcitem
    \startcitem{Some Words}\stopcitem
  \stopchoice
\stopquestion
\startquestion[answer=\getanswerfromchoice]
  該環境位於 \currentitemgroup。
 \startchoice
   \startcitem{Some More Words}\stopcitem
    \startcitem{Some More Words}\stopcitem
    \startcitem[*]{Some More Words}\stopcitem
    \startcitem[*]{Some More Words}\stopcitem
  \stopchoice
\stopquestion
\startquestion[answer=\getanswerfromchoice]
 該環境位於 \currentitemgroup。
 \startchoice
    \startcitem{Some More More Words}\stopcitem
   \startcitem[*]{Some More Words}\stopcitem
    \startcitem{Some More More Words}\stopcitem
    \startcitem[*]{Some More Words}\stopcitem
  \stopchoice
\stopquestion
```

```
3. (A C) 該環境位於 env_question:1。
A. Some Words
B. Some Words
C. Some Words
D. Some Words
4. (C D) 該環境位於 env_question:1。
A. Some More Words
B. Some More Words
C. Some More Words
D. Some More Words
```

5. (BD) 該環境位於 env question:1。

A. Some More More Words

C. Some More Words

D. Some More More Words

同時為 \startcitem\stopcitem 定義了同義命令 \citem 和 \fragilecitem。\fragilecitem命令可以不通過界定花括號來排版選項,但可能會引發未知問題,特別是選項中含有空格時。\citem 則需要將選項包裹在花括號中。

\citem {選項內容} \fragilecitem 選項內容

该环境继承了一部分 itemgroup 的键值,就如同前两个命令一样。不同于 question 具有answer 和 point 两种键值,该环境只具有 answer 相关的键值,来特别地设置是否显示答案和配置答案樣式。因为 choice 环境的特殊性,point 键值通过 question 环境来显示。和 question 環境的區別是 question 环境的 answer 控制答案是否显示在题干以及设置相关样式。choice 环境的 answer 控制答案是否显示在选项以及设置相关样式。

另外, choice 環境有一個特別的值: maxiwidth key is for calculated max width of choice and waited to be compare, notice this key is maxiwidth, and difference from maxwidth which for setupitem group command

```
\setupchoice [answer=\get_choice_answer,
517
              answerstyle=\ss\tf,
519
             answercolor=red,
             left={}, %%%%% follow is itemize option
520
              right={},
              stopper={.~},
522
523
              distance=.5em,
              option={packed, joinedup, nowhite},
524
              %before=,
525
             %after=,
             width=1em.
527
              maxiwidth=.8\textwidth,
528
529
              start=1,
             %align=,
530
              indenting=no,
531
             %svmalign=.
532
             %symbol=,
533
             %itemalign=,
534
             way=bysection,
535
536
             numberconversion=A,]
      \inherit_itemgroup_option[choice]
537
      \tolerant\protected\def\startchoice[#1]{\begingroup%
538
        \env_choicetrue%
539
        \increaseOusetionID%
540
        \doifelsesomething{\datasetvariable{Choice_collector}%
541
                 {\QusetionID}{totalchoicenumber}}% arg_1
542
543
          {\scratchcounter\datasetvariable{Choice_collector}%
                  {\QusetionID}{totalchoicenumber}}% arg_2
544
                  {\scratchcounter\zerocount{}% arg 3
545
        \current_total_choice_number=\number\scratchcounter\relax%
        \doifelsesomething{\datasetvariable{Choice_collector}
547
                  {\QusetionID}{availablecolumns}}%
548
549
          {\scratchcounter\datasetvariable{Choice_collector}
                  {\QusetionID}{availablecolumns}}%
550
                  {\scratchcounter\zerocount}%
551
552
        \current_available_columns=\number\scratchcounter\relax%
        \startluacode
554
        tbl_num_temp = {"one","two","three","four",
                 "five", "six", "senven", "eight", "nine"}
555
        local tbl_cit_count
                                 = tex.count['current_total_choice_number']
        local available_columns = tex.count['current_available_columns']
557
            available_columns_arg = ""
558
```

```
if (tbl_cit_count == 3) and (available_columns < tbl_cit_count)</pre>
559
       then available_columns_arg = "one"
560
        elseif (tbl_cit_count > 1) and (available_columns >= tbl_cit_count)
561
       then available_columns_arg = "horizontal," .. tbl_num_temp[tbl_cit_count]
562
       elseif (tbl_cit_count >= 1) and (available_columns <=</pre>
563
       then available_columns_arg = "one"
564
        else available_columns_arg = "horizontal,two"
565
        end
566
        \stopluacode
567
       \iffirstargument\setupchoice[#1]\fi%
568
        \startitemgroup[env_choice]%
569
                [\choiceparameter{numberconversion}, #1,%
                \ctxlua{context(available_columns_arg,"")},]%
571
572
573
        \processaction[\choiceparameter{showanswer}][%
            true=>\mode showanswertrue,
574
            false=>\mode_showanswerfalse,]%
575
       \totalchoicenumber=0\relax%
576
        \currentchoicenumber=0\relax%
578
       \show_check_info
       \setcounter [totalchoicenumber] [0]% recalculator when startitemgroup
579
        \setcounter [currentchoicenumber] [0]% recalculator when startitemgroup
581
      \def\stopchoice{%
582
583
       \width_max_with_label = \dimexpr\width_cit_max + %
584
                    \d_strc_itemgroups_list_width\relax%
       \currentchoicenumber=\numexpr\currentchoicenumber-1\relax%
585
       \ifnum \totalchoicenumber > \currentchoicenumber%
586
           \totalchoicenumber = \totalchoicenumber%
587
        \else \totalchoicenumber = \currentchoicenumber%
588
589
       \fi%遞歸出總序號
       \choice_max_compared_width=\choiceparameter{maxiwidth}\relax%
590
                 =\dimtonum{\choice_max_compared_width}\relax%
592
       \tempb
                 =\dimtonum{\the\width_max_with_label}\relax%
       \ifdefined \currentuserorder\else%
593
594
             \doifincsnameelse{env_choice:2}{\currentitemgroup}%
                {}{\set_count_envlevel[env_choice:1][choice]}\fi%
595
       \setdataset [Choice_collector][\QusetionID][%收集選項信息,傳遞給下面的總收集處
596
              id={\QusetionID},%
597
              envid={\currentitemgroup},%
598
              order={\number\currentorder},%
599
              userorder={\currentuserorder},%
600
              availablecolumns={\number\numexpr \tempa / \tempb\relax},
601
              itemmaxwidth={\the\width_cit_max},
602
              totalchoicenumber={\number\totalchoicenumber},
603
              point={\questionparameter\c!point},
              answerstatus={\check_choice_answerstatus},
605
606
              answer={\callcollection},]%
       \dataset_collector[question][choice]%
607
608
        \stopitemgroup\endgroup}
```

```
\setuptextbackground[env_answer]
609
610
                 [location=paragraph,width=local,
                 leftoffset=1ex,rightoffset=1ex,
611
612
                 %topoffset=.5ex,bottomoffset=.5ex,
                 before={\leftskip=0pt\startnarrower
613
                     \blank[force,halfline]},
614
                 after={\blank[halfline]\stopnarrower},
615
                 background=\answerparameter\c!background,
616
617
                 backgroundcolor=\answerparameter\c!backgroundcolor,
                 corner=\answerparameter\c!corner,
618
                 frame=\answerparameter\c!frame,
619
                 framecolor=\answerparameter\c!framecolor,
                 \verb"rulethickness=\answerparameter" \verb"\c!rulethickness",
621
622
                 ]
```

第6部分 设置 answer 环境

在(v20241023)中,删除了 answer 环境的标签通过 description 来进行设置。整体环境通过 textbackground 环境进行设置。该环境具有 answer 和 point 的全部键值。同时,通过 label labelstyle labelcolor 来设置答案环境的标签。此外,還提供了一個特殊的鍵值 sctipt,該鍵值主要用於創建答題區域。該鍵值和 answer 鍵值是互斥的,不應該同時啟用。

\answer 是爲師生兩版設置的命令。但目前該命令和相關設置還具有諸多不足之處。只需要將該環境置於題目下方,即可獲取當前題目設定

```
\startquestion[showanswer=true,answer={answer for \currentitemgroup }]
  該環境位於 \currentitemgroup 。注意: \tex{answer} 可以獲取父環境或同級環境的答案而不必再次設置。
  \startanswer[point=12]
 \input knuthmath
  \stopanswer
\stopquestion
\startquestion[showanswer=true,answer=\getanswerfromchoice]
  該環境位於 \currentitemgroup。注意: \tex{answer} 可以獲取父環境或同級環境的答案而不必再次設置。
  \startchoice
    \startcitem{Some Words}\stopcitem
    \startcitem{Some Words}\stopcitem
    \startcitem[*]{Some Words}\stopcitem
    \startcitem{Some Words}\stopcitem
  \stopchoice
  \startanswer[point=1]
 \input knuthmath
  \stopanswer
\stopquestion
```

6. (answer for env_question:1) 該環境位於 env_question:1。注意:\answer 可以獲取父環境或同級環境的答案而不必再次設置。

答案: (12分)(BD)

Many readers will skim over formulas on their first reading of your exposition. Therefore, your sentences should flow smoothly when all but the simplest formulas are replaced by "blah" or some other grunting noise.

7. (C) 該環境位於 env question:1。注意:\answer 可以獲取父環境或同級環境的答案而不必再次設置。

A. Some Words

- B. Some Words
- C. Some Words
- D. Some Words

答案: (1分)(C)

Many readers will skim over formulas on their first reading of your exposition. Therefore, your sentences should flow smoothly when all but the simplest formulas are replaced by "blah" or some other grunting noise.

```
\startquestion[showanswer=true]
該環境位於 \currentitemgroup。
\startproblem[showanswer=true,left={(},right={)},distance=1em,stopper={}]
\startpitem[showanswer=true,answer={Pitem 1}] 該環境位於 \currentitemgroup。 \stoppitem
\startanswer[point=10]
\input knuthmath
```

```
\startpitem[showanswer=true,answer={Pitem 2}] 該環境位於 \currentitemgroup 。 \stoppitem \startanswer[point=20] \input knuthmath \stopanswer \startpitem[showanswer=true,answer={Pitem 3}] 該環境位於 \currentitemgroup 。 \stoppitem \startanswer[point=30] \input knuthmath \stopanswer \stoppnoblem \stopproblem \stopproblem
```

8. () 該環境位於 env_question:1。

(1) (Pitem 1) 該環境位於 env_problem:2。

```
答案: (10分)( Pitem 1)
```

Many readers will skim over formulas on their first reading of your exposition. Therefore, your sentences should flow smoothly when all but the simplest formulas are replaced by "blah" or some other grunting noise.

(2) (Pitem 2) 該環境位於 env_problem:2。

```
答案: (20分)( Pitem 2)
```

Many readers will skim over formulas on their first reading of your exposition. Therefore, your sentences should flow smoothly when all but the simplest formulas are replaced by "blah" or some other grunting noise.

(3) (Pitem 3) 該環境位於 env_problem:2。

```
答案: (30分)( Pitem 3)
```

Many readers will skim over formulas on their first reading of your exposition. Therefore, your sentences should flow smoothly when all but the simplest formulas are replaced by "blah" or some other grunting noise.

```
\setupanswer[showanswer=true,
623
             showpoint=true,
624
625
             answer=\getanswerforanswer,
             point=\getpointforanswer,
626
             pointlabel={分},
627
             pointstyle=\answerparameter{style},
             pointcolor=\answerparameter{color},
629
             answerstyle=\answerparameter{style},
630
             answercolor=\answerparameter{color},
631
             style=\ss,
632
             labelstyle=\ss,
633
             label={答案 : },
634
             %before=,
636
             %after=,
             afteranswer={\par},
637
             showscript=false,
             %scriptcontent={},
639
             %scriptbefore={},
640
```

```
%scriptafter={},
641
642
             background=normalframeOL,
            %backgroundcolor=,
643
            %corner=,
644
            %frame=,
645
            %framecolor=,
646
647
            %rulethickness=,
            ]
648
      \tolerant\protected\def\startanswer[#1]#:#2\stopanswer{\begingroup%
649
650
        \env_answertrue%
        \iffirstargument\setupanswer[#1]\fi%
651
652
        \doif{\answerparameter{showscript}}{true}{\mode_showscripttrue}%
        \answerparameter{before}%
654
       \ifmode_showanswer%
         \startenv_answer%
655
            {\answerparameter{labelstyle}%
656
            \switchtocolor[\answerparameter{labelcolor}]%
657
658
            \answerparameter{label}}%
           \show_point_or_answer[answer][point]%
659
           \show_point_or_answer[answer][answer]%
660
661
           \useanswerstyleandcolor\c!style\c!color%
           \answerparameter{afteranswer}#2
662
663
         \stopenv_answer%
       \else%
664
        \ifmode_showscript%
665
         \startenv_answer%
          \answerparameter{scriptbefore}%
667
668
           \answerparameter{scriptcontent}%
          \answerparameter{scriptafter}%
669
         \stopenv_answer%
670
671
        \else\fi%
       \fi%
672
673
       \answerparameter{after}%
        \endgroup}
674
```

第7部分 设置 pitem,citem 命令

仅具有 answer point 和 reference 键值。

pitem 項目下如果含有 fillin 命令,可以通過 \getanswerfromfillin 來獲取答案請注意,不要同時為單個 pitem 或者 fillin 命令同時設置答案.這可能會引起答案無法正確獲取。

```
\setuppitem [%showpoint=false,
675
              point=0,% 必須有預設值, 否則出現計數器錯誤(missing number)
676
677
              pointstyle=\ttx,
              %pointcolor=,
678
              pointlabel={分},
              %showanswer=false,
680
681
              %answer=.
682
              answerstyle=\ss,
              answercolor=red,
683
              %reference=,
684
685
     \tolerant\protected\def\startpitem[#1]{\begingroup%
686
      \increaseQusetionID%
687
      \iffirstargument\setuppitem[#1]\fi%
688
        \startitem[\pitemparameter{reference}] %%
         \ifnum\currentpitemnumber=0\currentpitemnumber=1\relax\fi%
690
          \show_point_or_answer[pitem][point]%
691
          \show_point_or_answer[pitem][answer]%
692
        \set_count_itemlevel[env_problem:2][pitem]%
693
        \global\cnt_step_point_temp=\pitemparameter{point}\relax%
       \ifnum\cnt_step_point=0%
695
        \global\cnt_step_point=\cnt_step_point_temp\relax%
697
       \global\cnt_step_point=\numexpr\cnt_step_point+\cnt_step_point_temp\relax%
698
      \fi}
     \def\stoppitem{%
      \dataset_collector[pitem][pitem]%
701
      \stopitem\global\advance\currentpitemnumber by 1\relax\endgroup}
702
     choice 只具有 showanswer 和 [*](用于标记正确答案) 两个设置
703
     \def\correct choice#1#2{%
       \ifmode_showanswer%
704
705
         \doif{#1}{*}{%
          {\doifelse{\choiceparameter{answerstyle}}{}%
706
               {\choiceparameter{answerstyle}}%
               {\questionparameter{answerstyle}}%
708
709
          \doifelse{\choiceparameter{answercolor}}{}%
710
               {\switchtocolor[\choiceparameter{answercolor}]}%
               {\switchtocolor[\questionparameter{answercolor}]}%
712
           #2}}%%correct choice
       \else#2\fi}
713
     \def\get_citem_text[#1] {\setbox0=\hbox{#1}%
       \width_cit = \the\wd0\relax%relax is neccessary
715
```

```
\ifdim \width_cit_max > \width_cit%
716
           \width_cit_max = \width_cit_max%
717
       \else \width_cit_max = \width_cit%
718
       \fi}%%%% 遞歸計算出最大寬度
719
      \tolerant\protected\def\startcitem[#1]#*[#2]#:#3\stopcitem{% #1 correct answer
720
721
        \ifsecondargument\setupcitem[#2]\fi% #2 options
                                       #3 choice content
       \get_citem_text[#3]%
722
        \processaction[\choiceparameter{showanswer}][%
723
          true=>\mode_showanswertrue,
724
          false=>\mode_showanswerfalse,]%
725
726
        \doif{#1}{*}{\choice_checktrue}%
727
        \ifconditional\c_strc_itemgroups_horizontal% mode_horizontal
         \ifnum\currentchoicenumber<1%
729
         \currentchoicenumber = 1\relax%
         \else\relax\fi%
730
731
         \setcounter[currentchoicenumber][\currentchoicenumber]%
         \setcounter[totalchoicenumber][\currentchoicenumber]%
732
         \doif{#1}{*}{\savecounter[currentchoicenumber]}%
733
         %if new collect command work well, savecounter can be deleted
734
         \doif{#1}{*}{\collect{\convertnumber%
735
736
                {\choiceparameter{numberconversion}}%
                {\currentchoicenumber}}%
737
        \else%
          \ifnum\currentchoicenumber<1\relax%
739
740
          \currentchoicenumber=1\relax%
741
          \else\relax\fi%
742
       \startitem[\citemparameter\c!reference]
743
        \ifconditional\c_strc_itemgroups_horizontal% mode_horizontal
744
        \doifelse{#1}{*}{\correct_choice{#1}{#3}}{#3}%
745
746
        \else%
         \setcounter[currentchoicenumber][\currentchoicenumber]%
747
         \setcounter[totalchoicenumber][\currentchoicenumber]%
749
         \doifelse{#1}{*}{\correct_choice{#1}%
750
         {#3\savecounter[currentchoicenumber]}}%
751
         {#3}%if new collect command work well, savecounter can be deleted
         \doif{#1}{*}{\collect{\convertnumber%
752
               {\choiceparameter{numberconversion}}%
753
               {\currentchoicenumber}}}%
754
        \fi%
755
756
       \stopitem%
       \advance\currentchoicenumber by 1\relax%
757
758
```

第8部分 定义同义命令

```
\def\pitem{\dosingleempty\pitem_indeed}
     \def\pitem_indeed[#1]#2{
760
     \startpitem[#1]{#2}\stoppitem
762
763
     \def\citem{\dosingleempty\citem_indeed}
     \def\citem_indeed[#1]#2{%
764
      \startcitem[#1]{#2}\stopcitem%
765
     谨慎使用下面的 fragilecitem,他并不安全。很有可能导致错误
767
     \bgroup
768
     \obeylines
     \gdef\xcitem{\bgroup\obeylines\dosingleempty\doxcitem}%
769
     \gdef\doxcitem[#1]#2
      {\egroup%
771
772
      \doifsomethingelse{#1}%
      {\startcitem[#1]#2\stopcitem}%
773
774
775
      \startcitem #2\stopcitem}%
     \egroup
776
     \let\fragilecitem\xcitem
777
```

第9部分 設置 fillin 命令

該命令建議在 pitem 環境內進行使用。同時,為 pitem 的 answer 鍵設置 \getanswerfromfillin,這樣 pitem 命令 就可以自動獲取內部的 fillin 命令的答案當然,同時由於 pitem 本身也有 answer 鍵值,可以通過該鍵值進行設 定。

fillin 命令主要依靠 bar 命令實現的。基本上按照修改 bar 命令即可修改 fillin 命令。fillin 命令有兩個參考 textnote 的參數: empty 和 n。 empty=yes,隱藏答案; empty=number 顯示數字; empty=none 顯示答案。n=* 隱藏答案; n=NUMBER 控制 bar 的長度。

bar 主要有四種樣式,可以通過 mp 參數進行設置: rules:under:dots rules:under:dash

```
778
      \definedataset[Fillin_collector]
      \setupbar[fillin_text]
779
           [ rulethickness=\fillinparameter{rulethickness},
780
           foregroundcolor=\fillinparameter{foregroundcolor},
781
           foregroundstyle=\fillinparameter{foregroundstyle},
782
               continue=\fillinparameter{continue},
                 unit=\fillinparameter{unit},
784
                 order=\fillinparameter{order},
785
                method=\fillinparameter{method},
786
                  dy=\fillinparameter{dy},
787
                  max=\fillinparameter{max},
788
                 width=\fillinparameter{width},
789
                 left=\fillinparameter{left},
790
791
                 right=\fillinparameter{right},
                repeat=\fillinparameter{repeat},
792
                 color=\fillinparameter{color},
                offset=\fillinparameter{offset},
794
795
                 empty=\fillinparameter{empty},
                  mp=\fillinparameter{mp}]
796
      \setupfillin[%foregroundcolor=,
797
             %before=,after=,
             %left=,right=,
799
             %repeat=,mp=
800
             rule=fillin_text,% 引用 bar 命令
801
             empty=none,
802
             continue=yes,
             unit=em,
804
             order=foreground,
805
             method=0,
             %color=gray,
807
             width=4em,
808
             n=10,
809
             dy = -0.4,
810
811
             max=3,
             offset=-.1,
812
             rulethickness=.05,
813
             foregroundstyle=\ss,]
814
      \def\showanswer_for_fillin{%
815
816
        \ifmode_showanswer\setupfillin[empty=none]%
```

```
\else\setupfillin[empty=yes]\fi}
817
818
      \newcount\c_fillin_number
819
      \tolerant\protected\def\fillin[#1]#:#2{\begingroup%
       \iffirstargument\setupfillin[#1]\fi%
820
       \removeunwantedspaces%
821
       \global\advance\c_fillin_number by 1\relax
822
       \edef\p_n{\fillinparameter\c!n}%
823
       \edef\p_empty{\fillinparameter\c!empty}%
824
       \edef\p_number{\number\c_fillin_number}%
825
826
       \edef\currentbar{\fillinparameter\c!rule}%
       \showanswer_for_fillin%
827
828
       \fillinparameter\c!before\fillinparameter\c!left%
       \ifx\p_n\wildcardsymbol
830
        \donefalse
        \ifx\p_empty\v!yes
831
832
         \donetrue
        \else\ifx\p_empty\v!number
833
         \donetrue
834
        \else\ifx\p_empty\v!none
835
         \donetrue
836
837
        \fi\fi\fi
        \ifdone
838
         \setupbar[\currentbar][\c!empty=\v!yes]%
        \fi%
840
841
        \inlinebar[\currentbar]\bgroup
842
         \wordboundary#2%
         \ifx\p_empty\v!yes
843
         \else\ifx\p_empty\v!number
844
         \else\ifx\p_empty\v!none
845
         \fi\fi\fi
846
847
        \egroup
       \else
848
849
         \inlinebar[\currentbar]\bgroup
         \wordboundary
850
         \scratchcounter\numexpr\p_n\relax
851
852
         \ifx\p_empty\v!yes
853
          \interwordspacesbefore\scratchcounter
          \interwordspacesafter\scratchcounter
854
         \else\ifx\p_empty\v!number
855
          \interwordspacesbefore\scratchcounter
856
857
          \zwnj\runninghbox{\resetbar\p_number}\zwnj
858
          \interwordspacesafter\scratchcounter
         \else\ifx\p_empty\v!none
          \scratchcounter\numexpr\p_n/\plustwo\relax
860
861
          \interwordspacesbefore\scratchcounter
          \zwnj\runninghbox{\resetbar{#2}}\zwnj
862
          \interwordspacesafter\scratchcounter
863
864
         \else
          #2%
865
         \fi\fi\fi%
866
```

```
867  \egroup%
868  \fi%
869  \setdataset[Fillin_collector][\QusetionID][answer={#2}]%
870  \fillinparameter\c!right\fillinparameter\c!after%
871  \endgroup}
```

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第10部分 設置 material 環境

顧名思義,\material 環境用來放置大段文本材料。該環境比較特殊,它設置了多個子實例來進行更完善的設置。除了\setupmaterial[number] 這個實例繼承了\setupcounter 的全部鍵值之外,其他實例都是新定義的鍵值。

這些實例分別是:

- · \setupmaterial[number] 設置該環境標題的序號;
- · \setupmaterial[title] 設置該環境的標題相關的樣式;
- · \setupmaterial[author] 設置該環境文章的作者相關的樣式;
- · \setupmaterial[source] 設置該環境文章的具體來源的相關樣式。
- · \setupmaterial[indicator] 設置該環境文章的**畫線序號文字**的相關樣式。

此外,title,author,source 的名稱是通過 \setupmaterial 來直接設置。此外,該環境具有一個特殊的子命令 \indicator 來標記文章中的提問的部分並進行添加數字標識—(一)畫線文字。因此,\setupmaterial 還具有一個鍵值 indicator 通過 indicator=reset 對 indicator 進行重置,每當開啓一個新的 material 環境。通過 indicator=continue 對 indicator 取消重置,它將持續計數。當然,也可以直接通過 \setupmaterial[indicator] [reset=true] 來啓用重新計數

以上所有實例都具有以下鍵值: before after align style color 此外,\setupmaterial 可以通过 spacebefore 和spaceafter 来控制环境前后的垂直距离

notice, if you want change [start = number] after a chapter, you should use \resetcount[COUNTER_NAME] to reset current counter to the number of start you've setted. otherwise, you need put [start = number] before the chapter you want to reset the counter.

```
\setupmaterial[title][color=green]
\startmaterial[title={Knuth}, author={Mos}, source={Yelu}]
\input knuth
\stopmaterial
```

(一) Knuth

Mos

Thus, I came to the conclusion that the designer of a new system must not only be the implementer and first large–scale user; the designer should also write the first user manual.

The separation of any of these four components would have hurt T_EX significantly. If I had not participated fully in all these activities, literally hundreds of improvements would never have been made, because I would never have thought of them or perceived why they were important.

But a system cannot be successful if it is too strongly influenced by a single person. Once the initial design is complete and fairly robust, the real test begins as people with many different viewpoints undertake their own experiments.

Yelu

```
\setupmaterial [\c!align=center,
872
               %\c!color=,
873
               %\c!stvle=,
874
               \c!spacebefore=1em,
876
               \c!spaceafter=1em,
               %\c!title=,
877
               %\c!author=,
               %\c!source=.
879
               \c!indicator=continue,
880
```

```
indent={first,always,2em},]
881
      \setupmaterial [\c!number] [\c!before={(},\c!after={)},
882
                     \c!prefix=no,\c!start=0,
883
                     \c!style=\namedmaterialparameter\c!title\c!style,
884
                     \c!color=\namedmaterialparameter\c!title\c!color,
885
                     \c!numberconversion=cn,\c!way=\v!by\v!chapter]
886
      \setupmaterial [\c!title] [\c!style=\ss\tfa,\c!color=,\c!align=center,
887
                     \c!before=,]
888
      \setupmaterial [\c!author] [\c!style=\tf,\c!color=,\c!align=flushright]
      \setupmaterial [\c!source] [\c!before=\par,\c!align=flushright]
890
      \setupmaterial [indicator,indicator helper]
891
              [style=\ss\bf,before={ (~},after={~) },prefix=no,
              numberconversion=cn,type=line,reset=false]
893
      \def\material_counter_parameter#1%
894
895
      {\begingroup
        \def\currentmaterial{#1}%
896
        \setupalign[\namedmaterialparameter\c!title\c!align]
        \usematerialstyleandcolor\c!style\c!color
898
899
        \namedmaterialparameter\currentmaterial\c!before
900
        \incrementcounter[#1]\convertedcounter[#1]%
        \namedmaterialparameter\currentmaterial\c!after
901
       \endgroup}
      \def\material_parameter#1%creat new element in material
903
904
      {{\begingroup
        \def\currentmaterial{#1}%
905
        \setupalign[\namedmaterialparameter\currentmaterial\c!align]
906
907
        \usematerialstyleandcolor\c!style\c!color
        \namedmaterialparameter\currentmaterial\c!before
908
        \rootmaterialparameter\currentmaterial
910
        \namedmaterialparameter\currentmaterial\c!after
        \par\endgroup}}
911
      \tolerant\protected\def\startmaterial[#1]{\begingroup%
912
        \lettonothing\currentmaterial%
913
914
        \edef\p_indicator{\rootmaterialparameter\c!indicator}
        \edef\p_reset{\namedmaterialparameter{indicator}\c!reset}
915
        \processaction[\p indicator][
916
         reset=>\let\indicator_reset_helper\resetindicators,
917
        continue=>\continue_countertrue\let\indicator_reset_helper\relax,]
918
919
        \processaction[\p_reset][
         true=>\let\indicator_reset_helper\resetindicators,
920
        false=>\continue_countertrue\let\indicator_reset_helper\relax,]
921
922
      \env_materialtrue%
923
      \iffirstargument\setupcurrentmaterial[#1]\fi
       \indicator_reset_helper
925
      \usematerialstyleandcolor\c!style\c!color%
        \blank[\rootmaterialparameter\c!spacebefore]
926
        \startalignment[\rootmaterialparameter\c!align]
          \material_counter_parameter\c!number
928
          \material_parameter\c!title
929
```

```
\material_parameter\c!author
930
       \stopalignment
931
       \blank[\rootmaterialparameter\c!spaceafter]
932
       \setupindenting[\rootmaterialparameter{indent}]
933
934
     \def\stopmaterial{%
935
       \material_parameter\c!source
936
       \indicator_reset_helper
937
938
       \endgroup}
939
     \tolerant\protected\def\indicator[#1]#:#2{\begingroup%
       \def\currentmaterial{indicator}
940
941
       \iffirstargument\setupmaterial[indicator][#1]\fi%
        \edef\indicator_type{\namedmaterialparameter\currentmaterial\c!type}%
943
       \edef\indicator_reset{\namedmaterialparameter\currentmaterial\c!reset}%
       \processaction[\indicator_type]%
944
945
             [line=>\let\indicator_type\underbar,%
             none=>\let\indicator_type\relax]%
946
       \usematerialstyleandcolor\c!style\c!color%
947
       \indicator_type{%
948
        \namedmaterialparameter\currentmaterial\c!before%
949
950
       \ifmode_check%
        \ifenv_material\color[red] {material} \else\color[red] {\currentitemgroup} \fi%
951
        \ifcontinue_counter\color[red] {continue}\fi%
        \fi%
953
954
       \ifenv_material%
955
        \ifmode_check\color[red]{::indicator}\fi%
        \incrementcounter[\currentmaterial]%
956
957
        \convertedcounter[\currentmaterial]%
        \else%
958
        \ifmode_check\color[red]{::helper}\fi%
959
960
        \incrementcounter[indicator_helper]%
        \convertedcounter[indicator_helper]%
961
963
       \namedmaterialparameter\currentmaterial\c!after%
       #2}
964
965
     \endgroup}
     \incrementcounter[indicator]}
967
     \def\resetindicators{\setcounter[indicator][0]%
968
                \setcounter[indicator_helper] [0]}
969
```

第11部分 设置 close 环境

```
970 \cnt_closetest=1\relax
971 \tolerant\protected\def\closebar#1{
972 \startbar[underbar]
973 \scratchcounter\numexpr16/\plustwo\relax
974 \interwordspacesbefore\scratchcounter
975 \zwj\runninghbox{\resetbar{#1}}\zwj
976 \interwordspacesafter\scratchcounter
977 \stopbar{
```

close 環境近乎是單獨設計的。該環境主要使用兩個命令: \startclose 和 \stopclose 用來創建該環境, \closechoice 用來標記環境內的選項,該命令隨行文放置即可。選項無須再次在文章後放置, \stopclose 會自行放置。因為 close 環境的子項目 \closechoice 是通過 choice 環境設置的。因此,可以通過 [*] 來標記正確答案。

close 環境同樣繼承了 answer 的鍵值。此外設置了 reset 鍵來選擇是否每一篇重置選項的題號,其他的鍵值: barcolor barstyle 設置下划線樣式 before after style color 用於整體環境 width frame stopper distance 用於選項前題號樣式

\startclose

On Oct. 11, hundreds of runners competed in a cross-country race in Minnesota.

Melanie Bailey should have \closechoice[designed, followed, changed, finished] the course earlier than she did. Her \closechoice[delay, chance, trouble, excuse] came because she was carrying a \closechoice[judge, volunteer, classmate, competitor] across the finish line.

As reported by a local newspaper, Bailey was more than two-thirds of the way through her \closechoice[race, school, town, training] when a runner in front of her began crying in pain. She \closechoice[agreed, returned, stopped, promised] to help her fellow runner, Danielle Lenoue. Bailey took her arm to see if she could walk forward with \closechoice[courage, aid, patience, advice]. She couldn't. Bailey then \closechoice[went away, stood up, stepped aside, bent down] to let Lenoue climb onto her back and carried her all the way to the finish line, then another 300 feet to where Lenoue could get \closechoice[medical, public, constant, equal] attention.

Once there, Lenoue was \closechoice[interrupted, assessed, identified, appreciated] and later taken to a hospital, where she learned that she had serious injuries in one of her knees. She would have struggled with extreme \closechoice[hunger, pain, cold, tiredness] to make it to that aid checkpoint without Bailey's help.

As for Bailey, she is more \closechoice[worried,ashamed,confused,discouraged] about why her act is considered a big \closechoice[game,problem,lesson,deal].

"She was just crying. I couldn't \closechoice[leave,cure,bother,understand] her,"
Bailey told the reporter. "I feel like I was just doing the right thing."

Although the two young women were strangers before the \closechoice[ride,test,meet,show] , they've since become friends. Neither won the race, but the \closechoice[secret,display,benefit,exchange] of human kindness won the day. \stopclose

```
On Oct. 11, hundreds of runners competed in a cross-country race in Minnesota. Melanie Bailey
should have \underline{\hspace{1cm}} the course earlier than she did. Her \underline{\hspace{1cm}} came because she was carrying
a ____3 ___ across the finish line.
As reported by a local newspaper, Bailey was more than two-thirds of the way through her
when a runner in front of her began crying in pain. She _____ 5 ___ to help her fellow runner, Danielle
Lenoue. Bailey took her arm to see if she could walk forward with 6 . She couldn't. Bailey
         _7___ to let Lenoue climb onto her back and carried her all the way to the finish line, then
another 300 feet to where Lenoue could get _____8 ___ attention.
Once there, Lenoue was ____ 9 ___ and later taken to a hospital, where she learned that she had
serious injuries in one of her knees. She would have struggled with extreme 10 to make it to
that aid checkpoint without Bailey's help.
As for Bailey, she is more ____11___ about why her act is considered a big ____12___ . "She was just
crying. I couldn't _____13____ her," Bailey told the reporter. "I feel like I was just doing the right thing."
Although the two young women were strangers before the ____14____, they've since become friends.
Neither won the race, but the _____15 ___ of human kindness won the day.
 1. A. designed
                             B. followed
                                                       C. changed
                                                                                 D. finished
 2. A. delay
                             B. chance
                                                       C. trouble
                                                                                 D. excuse
 3. A. judge
                             B. volunteer
                                                       C. classmate
                                                                                 D. competitor
 4. A. race
                             B. school
                                                       C. town
                                                                                 D. training
 5. A. agreed
                             B. returned
                                                       C. stopped
                                                                                 D. promised
 6. A. courage
                             B. aid
                                                       C. patience
                                                                                 D. advice
                                                                                D. bent down
 7. A. went away
                             B. stood up
                                                       C. stepped aside
 8. A. medical
                             B. public
                                                       C. constant
                                                                                D. equal
                             B. assessed
                                                       C. identified
                                                                                 D. appreciated
 9. A. interrupted
10. A. hunger
                             B. pain
                                                       C. cold
                                                                                 D. tiredness
11. A. worried
                             B. ashamed
                                                       C. confused
                                                                                 D. discouraged
12. A. game
                             B. problem
                                                       C. lesson
                                                                                D. deal
13. A. leave
                                                       C. bother
                                                                                D. understand
                             B. cure
14. A. ride
                             B. test
                                                       C. meet
                                                                                 D. show
15. A. secret
                             B. display
                                                       C. benefit
                                                                                 D. exchange
```

```
\setupclose[%showanswer=false,
978
          answer=\getanswerfromchoice,
979
          reset=true,
980
          %mp=.
981
          answerstyle=\ss,
          answercolor=red,
983
          width=2em,% set order width
984
          frame=off,% set order frame
985
          stopper=.,% set order stopper
986
           distance=.5em,% set order distance
987
          after=\blank[halfline]]
988
     \def\closechoice[#1]{%定義文章內的序號。這是用戶命令,用來記錄選項(定義選項列表)
989
      \expandafter\gdef\csname close:\romannumerals\cnt_closetest\endcsname{#1}%
990
      % cnt_closetest 用於標記選項列表,會隨著選項題目增加,無論是否啓用重置,該計數器都會記錄並自增
991
       % 在生成選項序列時,該計數器可以進行: (1) 是否設置了選項 (2) 遞增出選項序列
992
        % 該計數器屬於局域, 每篇文章都會重置回 1。
      \ifclose_counter_reset%
994
       \begingroup%
995
```

```
\switchtocolor[\closeparameter{barcolor}]%
996
          \closeparameter{barstyle}%
         \closebar{\number\cnt_closetest}%
998
999
        \endgroup%
1000
       \else%
        \begingroup\let\par\relax% 將其封裝在局域, 避免 par 命令失效
1001
         \switchtocolor[\closeparameter{barcolor}]%
1002
          \closeparameter{barstyle}%
1003
          \startitemgroup[env_question][n,continue,text,nostopper]%
1004
                         [lefttext=\closebar,righttext=]%
1005
                 \item \setcounter [strc_close_counter][\currentitemnumber]%
1006
                     \savecounter[strc_close_counter]\relax%
         \stopitemgroup%
1008
1009
        \endgroup%
1010
       \fi%
       \advance\cnt_closetest by 1\relax}
1011
      \def\docloseitem#1{\startcitem #1\stopcitem}
1012
      \def\close_order{%選項前的序號樣式,序號通過 tempa 設定
1013
       \noindent\unskip%
1014
       \inframed[width=\closeparameter\c!width,
1015
1016
             frame=\closeparameter\c!frame,
            foreground=color.
1017
             foregroundcolor=\closeparameter\c!color,
             foregroundstyle=\closeparameter\c!style]{%
1019
1020
        \convertnumber{n}{\number\cnt_closetest_tempa}%
1021
        \closeparameter\c!stopper%
        \show_point_or_answer[close][answer]}%
1022
       \hskip\closeparameter\c!distance\relax
1023
       \global\advance\cnt_closetest_tempa by 1\relax
1024
       \unskip}
1025
1026
      \def\placeclosechoice{%
       \ifnum\cnt_closetest=1\relax
1027
          \color[red]{it seems that there is no
                 "closechoice" be setted,
1029
                 please check it!}%
1030
1031
       \fi%
       \scratchcounter\numexpr\cnt_closetest-1\relax
1032
1033
       \cnt_closetest=1\relax%
       \def\closetest_list{\csname close:\romannumerals\cnt_closetest\endcsname}
1034
       \useclosestyleandcolor\c!style\c!color%
1035
1036
       \dorecurse{\number\scratchcounter}{%
        \hbox{\hsize=\textwidth%
1037
            \parentitemnumber=\currentitemnumber\relax
1038
           \edef\currentuserorder{\number\cnt_closetest_tempa%放置在這裡才能正確獲取題號
1039
             \ifnum\rawcountervalue[Unicode_botlevel]=0\relax\else% 抽出 order 定義,
1040
1041
             (\rawcountervalue[Unicode_botlevel])\fi}% 因為該環境沒有上級 question 環境
          \hbox{\close_order}\hbox{%
1042
1043
         \vtop{%
          \startchoice%
1044
1045
           \processcommacommand[\closetest_list]\docloseitem%
```

```
\stopchoice%
1046
1047
       \advance\cnt_closetest by 1\relax}%
1048
       \cnt_closetest=1\relax%
1049
1050
      \tolerant\protected\def\startclose[#1]{\begingroup%
1051
       \env_closetrue%
1052
1053
       \iffirstargument\setupclose[#1]\fi%
       \edef\p_reset{\closeparameter\c!reset}
1054
1055
       \ifx\p_reset\c!true%
          \close_counter_resettrue%
1056
1057
       \else\close_counter_resetfalse\fi%
1058
       \restorecounter[strc_close_counter]% 继承 question 的序号
1059
       \scratchcounter\rawcountervalue[strc_close_counter]%
       \ifclose_counter_reset\cnt_closetest_tempa=1\relax\else%
1060
        \cnt_closetest_tempa=\number\scratchcounter%tempa 标记文章内的序号和选项前的序号
1061
        \cnt_closetest_tempa=\numexpr\cnt_closetest_tempa+1\relax
1062
1063
       \fi\closeparameter\c!before%
      3
1064
      \def\stopclose{%
1065
1066
       \closeparameter\c!after%
       \placeclosechoice%
1067
       \endgroup%
1069
```

第12部分 設置 optclose 環境

該環境是 close 環境的變體,但目前並未對該環境進行更多的設置。該環境的主要命令有兩個:\startoptclose 和 \stopoptclose 用來創建該環境,\ocitem 用來標記環境內的選項,該命令隨行文放置即可。\ocitem[answer=blabla]blablabla

此外,還有一個特殊的命令,\specialocitem僅具有 answer 鍵值。可以通過 \setupocitem 來調整該命令的樣式。該命令標記答案,且無須任何環境包裹。

```
\setupocitem [%answer=,
1070
1071
             %color=,
             %point=.
1072
              %showanswer=false,
              answerprelabel={answer: },]
1074
      \def\startoptclose{
1075
      \startitemgroup[env_question][n,continue,text,nostopper][lefttext=\closebar,righttext=]%
1076
      \leftskip=0pt\relax
1077
      \set_count_envlevel[env_question:1][question]%
1078
1079
1080
      \def\stopoptclose{
1081
      \stopitemgroup}
      \setupocitem[answercolor=red,answerstyle=\ss,]
1082
      \tolerant\def\ocitem[#1]#:#2%
1083
        {\begingroup%
1084
        \iffirstargument\setupocitem[#1]\fi%
1085
        \useocitemstyleandcolor\c!style\c!color%
1086
        \let\par\relax\increaseQusetionID%
                                                   %%% 必須命令, 自增序號以備調用
1087
        \item \show_point_or_answer[ocitem][point]%
           \set_count_itemlevel[env_question:2][ocitem] %%%% 必須命令, 設定序號
1089
           \allowbreak\doifsomethingelse{#2}{(#2)}{}%
1090
           \show_point_or_answer[ocitem][answer]%
1091
           \dataset_collector[ocitem][ocitem]%
                                                    %%% 必須命令, 設定可調用信息
1092
           \setcounter
                         [strc_close_counter][\currentitemnumber]%
1093
           \savecounter [strc_close_counter]%
1094
       \endgroup}
1095
      \def\specialocitem[#1] {\begingroup\let\par\relax%
        \setupocitem[#1]\useocitemstyleandcolor\c!style\c!color%%
1097
        \startitemgroup[env_question][n,continue,text,nostopper][lefttext=\closebar,righttext=]%
1098
        \item \ifenv_close\relax\else%
1099
           \increaseQusetionID%
1100
           %\show_point_or_answer[ocitem][point]%
           \set_count_itemlevel[env_question:2][ocitem]%
1102
           \show_point_or_answer[ocitem][answer]%
1103
1104
           \dataset_collector[ocitem][ocitem]%
                        [strc_close_counter][\currentitemnumber]%
           \setcounter
1105
           \savecounter [strc_close_counter]\fi%
        \stopitemgroup\removeunwantedspaces\endgroup}
1107
```

第13部分 score

```
放置在 answer 環境內標記得分。
          score\score{3}\\
          score\score[type=dotfill]{30}\\
          \resetscore\\
          score\score[type=cdotfill]{30}\\
          \setupscore[score=calculation]
          score\score[type=space]{3}\\
          score\score[type=hfill]{3}\\
1108
      \newcount\cnt_step_score
1109
      \def\score_calc#1{% only show number
       \newcount\cnt_step_score_temp%
1110
1111
       \global\cnt_step_score_temp=#1\relax%
1112
       \ifnum\cnt_step_score=0\global\cnt_step_score=#1\relax\else%
       \global\cnt_step_score=\numexpr\cnt_step_score_temp\relax%
1113
1114
       \fi\number\cnt_step_score%
1115
      \def\dotfill{\leavevmode%
1116
       \xleaders\hbox to 0.25em{\hfil.\hfil}%
1117
       \hfill\kern Opt\relax}
1118
1119
      \def\cdotfill{\leavevmode%
       \xleaders\hbox to 0.25em{\hfil$\cdot$\hfil}%
1120
       \hfill\kern Opt\relax}
1122
      \installnamespace
                                {score}
      \installcommandhandler \????score {score} \????score
1123
1124
      \setupscore[style=\ssa,color=red,dotstyle=\ss,dotcolor=red,score=]
      \tolerant\protected\def\score[#1]#:#2{\begingroup% format style
1125
       \iffirstargument\setupscore[#1]\fi%
1126
       \scoreparameter\c!before%
1127
       \usescorestyleandcolor\c!style\c!color%
1128
       \start\space\scoreparameter{dotstyle}%
1129
1130
       \switchtocolor[\scoreparameter{dotcolor}]%
       \doif{\scoreparameter\c!type}{}{\dotfill}%
1131
       \doif{\scoreparameter\c!type}{space}{}%
1132
1133
       \doif{\scoreparameter\c!type}{hfill}{\unskip\hfill}%
       \doif{\scoreparameter\c!type}{dotfill}{\dotfill}%
1134
1135
       \doif{\scoreparameter\c!type}{cdotfill}{\cdotfill}}%
1136
       \space\stop\scoreparameter\c!left%
1137
       \doif{\scoreparameter{score}}{}
                                             {#2}%
1138
       \doif{\scoreparameter{score}}{default} {#2}%
       \doif{\scoreparameter{score}}{calculation}{\score_calc{#2}}%
1139
       \doif{\scoreparameter{score}}{complex} {#2 : \score_calc{#2}}%
1141
       \scoreparameter\c!right\scoreparameter\c!after%
      \par\endgroup}
1142
      \def\resetscore{%
       \cnt_step_score_temp=0\relax%
1144
          \cnt_step_score=0\relax%
1145
```

```
3
1146
1147
       \installnamespace
                              {writingbox}
       \installcommandhandler \????writingbox {writingbox} \????writingbox
1148
       \setupwritingbox[row=10,column=18,width=2em,height=2em,midheight=1em]
1149
       \newcount \tbl_row
1150
       \newcount \tbl_col
1151
1152
       \def\makewritingbox{\dosingleempty\makewritingbox_indeed}
       \def\makewritingbox_indeed[#1] {\begingroup%
1153
1154
        \tbl_row=\writingboxparameter{row} % yoko
        \tbl_col=\writingboxparameter{column} % tate
1155
1156
        \setupTABLE[split=yes]
1157
        \setupTABLE[column][width=\writingboxparameter{width}]
        \setupTABLE[row][odd][height=\writingboxparameter{midheight}]
1158
1159
        \setupTABLE[row][even][height=\writingboxparameter{height}]
        \bTABLE
1160
           \bTR \bTD[nc=\number\tbl_col] {} \eTD \eTR
1161
1162
           \dorecurse{\number\tbl_row}{
           \bTR
1163
             \dorecurse{\number\tbl_col}{\bTD {} \eTD}
1164
1165
           \eTR
           \bTR \bTD[nc=\number\tbl_col] {} \eTD \eTR}
1166
        \eTABLE
       \endgroup}
1168
```

第14部分 模拟例子

1214

尺寸没有变化\or%5

```
1169
     \dorecurse{200}{
     \expandafter\getrandomnumber \csname n \romannumeral\recurselevel\endcsname {1} {20}}
1170
     \dorecurse{200}{
1171
1172
     \expandafter\getrandomnumber \csname nn_\romannumeral\recurselevel\endcsname {1} {20}}
     \def\longtesttxt[#1]{%%1. \longtesttxt[\romannumeral 1]
1173
     \ifcase\csname n_#1\endcsname%
1174
      就像按 S 来响应错误一样。\or‰
1175
      这个例子不太完整,因为页码没有存储在有用的地方。\or%1
1176
      TeX 处理数学显示后,它将以下项目添加到当前垂直列表中: 惩罚、胶水、实际显示、胶水和惩罚。\or%2
1177
      然而,它显示了一种增加或减少计数器的方法,并设置数字中的数字或相当于数字的罗马数字中的字母。\or%3
1179
      基本问题是 "对 TeXbook 的页面引用应该如何出现在参考页面的描述区域中?" 这个例子显示了三种可能性。\or%4
      正如 TeX 不会随机连字符单词一样,它也不会在段落中的行之间随机打断数学表达式。\or%5
1180
      TeX 仅考虑在关系(例如 = 或 < ) 或二进制操作(例如 + 或 × ) 之后进行中断。\or%6
      此命令提供对当前字体中所有字符的访问。号码应该在 0 -- 255 范围内。\or%7
1182
      Junkjunk.tex文件不包含任何有用的东西,但这些行说明了一种读取辅助文件的方法。\or%8
      此命令将框寄存器中的列表副本添加到当前列表中。\or%9
1184
      请注意,每个寄存器在创建后都会被初始化。\orso
1185
      此命令提供了一种直接指定分隔符的方法。\or%1
      数字应该是七个十六进制数字。\or%2
1187
      它的前导数字必须在 0-7 范围内。该数字用作类号,其余六位数字用作 \type{\delcode} 值。\or%3
1188
      Plain TeX 有二十多个定义,类似于: `\type{\def\rceil{\delimiter"5265307 }}'。\or%4
1189
      这个定义意味着 \type{\rcei1} 在家庭5 (关闭), 其小形式在家庭2位置"65, 其大形式在家庭3位置"07"。\orw5
1190
      \type{\Delimiter} 指定了一个数学符号,并以两种方式工作。\or%6
      当 TeX 寻找分隔符时(例如,在 \type{\left} 之后),它忽略了类数字,并使用剩余的六位数字作为 \type{
1192
       \delcode}, \or%7
1193
      但是, 当分隔符在其他上下文中出现时, 右三位数字被删除, 其余四位数字成为符号的 \type{\mathcode}。\ox%8
1194
      对于 \type{\rceil}, 这意味着 \type{\delcode} 是"265307, \type{\mathcode} 是"5265"。\or%9
1195
      它首先计算子公式在轴上方和下延伸的距离。接下来,它使 y 等于刚刚计算的最大距离的两倍。\fi}
1196
     \def\shorttesttxt[#1]{\mathrew{\textst}[i]
1197
     \ifcase\csname nn_#1\endcsname%
1198
      悬挂压痕的数量\or%0
1199
      段落中正线的宽度\or%1
1200
      开始一个没有缩进的新段落\or%2
1201
      告诉TeX尝试增加或减少段落中的行数\or%3
      扩展令牌, 但在到达非空间令牌之前什么都不做\or%4
1203
      只有当主垂直列表为空时,它才会结束当前工作\or%5
1204
      该命令在内部垂直模式下是不允许的\or%6
1205
      任意中断由三个字符序列组成\or%7
1206
      另一个无效号码被传递了\or%8
1207
      来自假部分的条件命令\or%9
1208
      线路需要转移的金额\or%0
1209
      用于指定显示样式\or%1
1210
      关系后断线的惩罚\or%2
1211
      此命令定义了宏\or%3
      家庭的脚本字体\or%4
1213
```

```
额外的空间\or%6
1215
        左边的段落\or%7
1216
         当前线宽\or%8
1217
        文本样式\or%9
1218
        序列\fi}
1219
1220
      \def\choicenum[#1][#2][#3]{
       \ifnum\csname nn_#1\endcsname < 6
1221
        \expandafter\startcitem[*]{\shorttesttxt[\romannumeral #2]} \stopcitem
1222
1223
       \else
1224
        \expandafter\startcitem{\shorttesttxt[\romannumeral #3]} \stopcitem
1225
1226
      \newcount\LNUM\LNUM=1\relax
1227
      \newcount\CNUM\CNUM=1\relax
1228
      \newcount\DNUM\DNUM=1\relax
1229
      \newcount\ENUM\ENUM=2\relax
1230
      \def\example@choice#1{
1231
        \setupquestion[point=2,answer=\getanswerfromchoice]
1232
1233
        \dorecurse{#1}{
1234
          \startquestion
          \longtesttxt[\romannumeral\LNUM]\global\advance\LNUM by 1\relax
1235
             \startchoice
1236
             \choicenum[\romannumeral\CNUM][\the\DNUM][\the\ENUM]
1237
             \global\advance\CNUM by 1\relax\global\advance\DNUM by 2\relax\global\advance\ENUM by 2\relax
1238
1239
             \choicenum[\romannumeral\CNUM][\the\DNUM][\the\ENUM]
             \advance\CNUM by 1\relax\advance\DNUM by 1\relax\advance\ENUM by 2\relax
1240
1241
             \choicenum[\romannumeral\CNUM][\the\DNUM][\the\ENUM]
             \advance\CNUM by 1\relax\advance\DNUM by 1\relax\advance\ENUM by 2\relax
1242
             \choicenum[\romannumeral\CNUM][\the\DNUM][\the\ENUM]
1243
             \advance\CNUM by 1\relax\advance\DNUM by 1\relax\advance\ENUM by 2\relax
1244
             \stopchoice
1245
             \startanswer
1246
             \input knuthmath
1247
1248
             \stopanswer
        \stopquestion}
1249
1250
1251
      \def\example@fillin#1{
1252
        \setupquestion[answer=,point=\getpointfrompitem]
        \setuppitem [point=3,answer=\getanswerfromfillin]
1253
1254
        \startquestion
          \longtesttxt[\romannumeral\LNUM]
1255
          \def\fillinanswer{\shorttesttxt[\romannumeral\CNUM]}
1256
          \startproblem
1257
1258
          \dorecurse{#1}{
1259
          \startpitem
            \ifmode_showanswer DDD \else XXXX\fi
1260
            \longtesttxt[\romannumeral\CNUM]\fillin[]{\fillinanswer}
           \stoppitem
1262
           \startanswer
1263
```

```
\input knuthmath
1264
             \stopanswer
1265
           \global\advance\CNUM by 1\relax}
1266
1267
          \stopproblem
1268
          \stopquestion
       3
1269
       \def\example@pitem#1{
1270
         \setupquestion[answer=,point=\getpointfrompitem]
1271
         \startquestion
1272
          \longtesttxt[\romannumeral\LNUM]
1273
          \def\fillinanswer{\shorttesttxt[\romannumeral\CNUM]}
1274
          \startproblem
1275
          \dorecurse{#1}{
1276
           \startpitem[answer={answer : \recurselevel},point={\number\CNUM\relax}]
1277
           \longtesttxt[\romannumeral\CNUM]\stoppitem
1278
           \startanswer
1279
              \input knuthmath
1280
           \stopanswer
1281
           \global\advance\CNUM by 1\relax}
1282
1283
          \stopproblem
          \stopquestion
1284
1285
       \def\example@material#1{
1286
         \startmaterial
1287
1288
         \input knuthmath
         \stopmaterial
1289
         \setupquestion[point=6,answer=\getanswerfromchoice]
1290
         \dorecurse{#1}{
1291
          \startquestion
1292
          \longtesttxt[\romannumeral\LNUM]\global\advance\LNUM by 1\relax
1293
             \startchoice
1294
             \choicenum[\romannumeral\CNUM][\the\DNUM][\the\ENUM]
1295
             \global\advance\CNUM by 1\relax%
1296
             \global\advance\DNUM by 2\relax%
1297
             \global\advance\ENUM by 2\relax%
1298
             \choicenum[\romannumeral\CNUM][\the\DNUM][\the\ENUM]
1299
             \advance\CNUM by 1\relax%
             \advance\DNUM by 1\relax%
1301
             \advance\ENUM by 2\relax%
1302
             \verb|\choicenum[\romannumeral|\CNUM][\the|\DNUM][\the|\ENUM]|
1303
             \advance\CNUM by 1\relax%
1304
             \advance\DNUM by 1\relax%
             \advance\ENUM by 2\relax%
1306
             \choicenum[\romannumeral\CNUM][\the\DNUM][\the\ENUM]
1307
             \advance\CNUM by 1\relax%
1308
             \advance\DNUM by 1\relax%
1309
1310
             \advance\ENUM by 2\relax%
             \stopchoice
1311
1312
             \startanswer
1313
              \input knuthmath
1314
             \stopanswer
```

```
\stopquestion}
1315
1316
      \def\example@close#1{
1317
1318
        \startclose
        \def\closechoicex{\shorttesttxt[\romannumeral\DNUM]\global\advance\DNUM by 1\relax}
1319
        \dorecurse{#1}{
1320
           \dorecurse{3}{
1321
           \longtesttxt[\romannumeral\CNUM]
1322
           \global\advance\CNUM by 1\relax
1323
           }\closechoice[\closechoicex,{[*]\closechoicex},\closechoicex]
1324
         \longtesttxt[\romannumeral\CNUM]}
1325
        \stopclose
1326
1327
      3
      \def\example@optclose#1{
1328
1329
        \startoptclose
        \def\closechoicex{{\ss\shorttesttxt[\romannumeral\DNUM]\global\advance\DNUM by 1\relax}}
1330
        \dorecurse{#1}{
           \dorecurse{3}{
1332
           \longtesttxt[\romannumeral\CNUM]
1333
1334
           \global\advance\CNUM by 1\relax
           }\ocitem[answer={\shorttesttxt[\romannumeral\DNUM]}]{\closechoicex,\closechoicex,\closechoicex}
1335
          \longtesttxt[\romannumeral\CNUM]}
        \stopoptclose
1337
1338
1339
      \def\example@specialoptclose#1{
        \startoptclose
1340
1341
        \def\closechoicex{\shorttesttxt[\romannumeral\DNUM]\global\advance\DNUM by 1\relax}
        \dorecurse{#1}{
1342
           \dorecurse{3}{
1343
1344
           \longtesttxt[\romannumeral\CNUM]
           \global\advance\CNUM by 1\relax
1345
           }\specialocitem[answer={\closechoicex}]
1346
         \longtesttxt[\romannumeral\CNUM]}
1347
        \stopoptclose
1348
1349
      \newcount\gid in chap\gid in chap=1\relax
1350
      \def\resetanswerid{\qid_in_chap=1\relax}
1351
      \def\typeanswerbychap{\dosingleempty\typeanswerbychap_indeed}
1352
      \def\typeanswerbychap_indeed[#1]#2{% #1 = chapter number, 該命令會自行遞增計數器來獲取答案
1353
1354
       \iffirstargument\qid_in_chap=#1\relax\fi%
       \datasetvariable{Answer_collector}{#2-\the\qid_in_chap}{answer}%
1355
       \advance\qid_in_chap by 1\relax}
1356
      \def\typeanswerdirect#1{% #1 = qid, 需要自行輸入來獲取某個題目的答案
1357
       \datasetvariable{Answer_collector}{#1}{answer}}
1358
1359
      \def\typeanswerlist{\dodoubleempty\typeanswerlist_indeed}
      \def\typeanswerlist_indeed[#1][#2]#3{\%#1 = chapter number
1360
       \ifsecondargument\qid_in_chap=#2\fi% #2 = from which question to start
       \dorecurse{#3}{% answer amount
1362
        \datasetvariable{Answer_collector}{#1-\the\qid_in_chap}{answer}%
1363
```

```
\advance\qid_in_chap by 1\relax}
1364
1365
      \newcount\answer@seq@tempa\answer@seq@tempa=0\relax%
1366
      \newcount\answer@seq@tempb\answer@seq@tempb=0\relax%
1367
      \newcount\answer@seq@tempc
1368
      \def\type@answer@i[#1*#2,#3,#4]{% #1 for row #2 for column %
                        % #3 chapter number #4 last answer id%
1370
1371
       \answer@seq@tempc=\numexpr#4-1\relax%
        \bTABLE
1372
          \dorecurse{#1}{\bTR
1373
1374
           \dorecurse{#2}{%
           \ifnum\answer@seq@tempa>\answer@seq@tempc \bTD\eTD\relax\else%
1375
              \advance\answer@seq@tempa by 1\relax%
1376
               \expanded{\bTD
1377
                \datasetvariable{Answer_collector}{#3-\the\answer@seq@tempa}{userorder}
1378
1379
          \eTD}\fi}
          \eTR\bTR
1380
           \dorecurse{#2}{%
1381
            \ifnum\answer@seq@tempb>\answer@seq@tempc \bTD\eTD\relax\else%
1382
           \advance\answer@seq@tempb by 1\relax%
1383
1384
             \expanded{\bTD
             \datasetvariable{Answer_collector}{#3-\the\answer@seq@tempb}{answer}
1385
           \eTD}\fi}
          \eTR}
1387
        \eTABLE
1388
      3
1389
1390
      \def\type@answer@ii{
      \answer_seq=0\relax
1391
1392
      \bTABLE
      \dorecurse{4}{\bTR
1393
       \dorecurse{5}{
1394
1395
           \advance\answer_seq by 1\relax%
             \expanded{\bTD\the\answer_seq\eTD}
1396
          \expanded{\bTD
1397
1398
           \datasetvariable{Answer_collector}{\the\answer_seq}{answer}
        \eTD}}
1399
1400
      \eTR}
      \eTABLE}
1401
```

第15部分 模式設置

```
\definemode[teacher][keep]
1402
       \definemode[student][keep]
1403
       \definemode[check] [keep]
       \doif{\moduleparameter{basicexam}{mode}}{teacher}
1405
1406
         {\enablemode[teacher]}{}
       \doif{\moduleparameter{basicexam}{mode}}{student}
1407
         {\enablemode[student]}{}
1408
1409
       \doif{\moduleparameter{basicexam}{mode}}{}
         {\enablemode[student]}{}
1410
1411
       \startmode[teacher]
        \mode_showanswertrue
1412
1413
        \mode_showpointtrue
1414
       \stopmode
       \startmode[student]
1415
        \mode_showanswerfalse
1416
1417
        \mbox{\verb|mode_showpointfalse|}
       \stopmode
1418
       \protect
       \stopmodule
1420
       \endinput
1421
```