

# 國立中山大學學生成績作業要點

## Guidelines on Academic Evaluation

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112年12月12日本校第178次教務會議修正通過

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一、 本校自100學年度起入學學生成績實施等第制，為配合辦理學生成績評量相關事宜，特訂定本要點。

I. These guidelines are formulated to handle matters regarding academic evaluation, based on the letter grade system adopted since the 2011 academic year.

二、 授課教師對學生之日常出勤狀態考查、平時考試、期中考試、期末考試等評定，由授課教師依課程大綱自行決定。

II. Assessment measures including student attendance, quizzes, the mid-term exam, and the final exam shall be specified in the course syllabus determined by the faculty.

三、 教師繳交成績方式如下：

III. The faculty shall submit grades according to the following:

(一) 學期學業成績可以選擇用「等第制」方式或「百分制」方式給分。

(1) Semester grades shall be evaluated with either the “letter grade system” or the “percentage grade system.”

(2) 學位考試成績由所有口試出席委員合議為單一成績，99 學年度(含)以前入學之在校生採百分評分；100 學年度(含)以後入學之學生採等第評分。

(2) A single grade of degree examination shall be given with the consensus from all committee members present. Students admitted before the 2010 academic year shall be given a percentage grade, whereas those admitted from the 2011 academic year onwards a letter grade.

四、 學生學業成績處理及轉換規範如下：

IV. Matters regarding handling academic evaluation and grade conversion are stipulated as follows:

- (一) 99 學年度(含)以前已畢業校友或退學之學生，其成績不予變更。
- (1) Grades of students graduating or dismissed from the University before the 2010 academic year shall not be altered.
- (二) 99 學年度(含)前入學之在校生及 100 學年度入學轉學生，成績以「百分制」紀錄：
- (2) Grades of students enrolling before the 2010 academic year (inclusive) or transferred to the University in the 2011 academic year shall be recorded based on the “percentage grade system” :
1. 等第制實施前其各科目學期學業成績皆保留原已存在之百分制成績。實施後其各科目學期學業成績亦以百分制成績登錄保留。教師若以等第給分，則依「等第制與百分制單科成績對照表」(如附表一)，換算成「百分制之區間中間值」登錄。
    - i. Semester grades given based on the percentage grade system shall remain unchanged. Grades given after the implementation of the letter grade system, shall still follow the same percentage system, and any letter grade given shall be converted into a percentage grade following the table of “Converting Chart between Percentage Grade System and Letter Grade System” (Appendix 1).
    - ii. 等第制實施前各項成績排名保留原已存在「百分制」之排名；實施後單科排名依授課教師所採評分方式計算；其他各項排名依百分成績計算。
    - iii. The rankings based on percentage grades before the implementation of the letter grade system shall remain unchanged. After the implementation, the ranking of a course shall be based on the grading system the teaching faculty adopts, but other rankings shall be based on percentage grades.
  3. 英文成績單歷年學業平均成績之GPA(Grade Point Average)維持以最高積分為 4.0 計算。
    - iii. The overall GPA on the English version of transcript shall be calculated based on a 4.0 scale, with 4.0 as the highest point.

- (三) 100 學年度(含)以後入學之學生，成績以「等第制」紀錄：
- (3) Grades of students enrolling after the 2011 academic year (inclusive) shall be recorded based on the “letter grade system”:
1. 教師若以百分成績給分，則教務處依「等第制與百分制單科成績對照表」(如附表一)換算成等第成績登錄。
    - i. If the faculty gives percentage grades, the Office of Academic Affairs (OAA) shall convert them to letter grades in accordance with the “Converting Chart between Percentage Grade System and Letter Grade System” (Appendix 1.)
  2. 單科成績排名依授課教師所採評分方式排序；其他各項排名依學業平均成績之 GPA 排序，若學業平均成績之 GPA 同分者，再依各系所(組、學位學程)專業必修平均成績之GPA高低排序。
- The ranking of a course shall be based on the grading system the teaching faculty adopts, but other rankings shall be based on GPA. To differentiate those with the same GPA, the ranking shall be further determined by the GPA of mandatory courses of each department /institute/division/degree program (unit).
- (四) 99 學年度(含)前入學之學生因休學、延畢等必須和 100 學年度(含)後入學之學生一起排名時：
- 單科排名依授課教師所採評分方式排序；其他各項排名以原始百分分數，依「等第制與百分制單科成績對照表」(如附表一)換算成等第積分後，以學業平均成績之GPA與100學年度(含)後入學之學生進行排名，若學業平均成績之GPA同分者，再依各系所(組、學位學程)專業必修平均成績之GPA高低排序。
- (4) For students being suspended from the University or deferring their graduation, their grade rankings with those enrolled after the 2011 academic year (inclusive) shall be handled as follows. The ranking of a course shall be based on the grading system the teaching faculty adopts, but for other rankings, their percentage grades shall be first converted to letter grades in accordance with the “Converting Chart between Percentage Grade System and Letter Grade System” (Appendix 1.) and then be ranked with those of other students enrolling after 2011 (inclusive) based on GPA. To differentiate those with the same GPA, the ranking shall be further determined by the GPA of mandatory courses of each unit.

五、 為配合採用百分制成績之需要，訂定學業平均成績GPA換算百分數對照表如附表二，供外界參酌使用。

V. For the need of keeping the percentage grade system, the “Table for Converting GPA to Percentage Grades” (Appendix 2) is appended for reference.

六、 成績排名種類：

VI. Types of rankings:

- (一) 學期成績排名：指該學期在學學生之學期學業平均成績排名。
  - (1) Grade ranking of a semester refers to the ranking based on students' average grade in a semester.
- (二) 學年成績排名：指該學年度第二學期在學學生之學年學業平均成績排名。
  - (2) Grade ranking of an academic year refers to the ranking based on students' average grade in an academic year.
- (三) 歷年成績排名：指在學學生入學至今之歷年學業平均成績排名，學生申請時尚未有當學期成績排名者，累計至前學期為原則。
  - (3) Grade ranking of previous study years refers to the ranking based on students' average grade of all semester grades since enrollment to the present. In principle, if the average grade of the current semester is still unavailable when students apply, the previous semester grade is taken as the last one for the average.
- (四) 碩士班甄試排名：指學士班應屆畢業生之歷年學業平均成績排名，畢業學生以畢業成績排名，作為甄試排名。
  - (4) Master's program admission ranking refers to the ranking of current students' average grade of all undergraduate study years; graduates are ranked based on their graduation scores as the admission ranking.
- (五) 畢業成績排名：指同一學年度畢業學生之歷年學業平均成績排名。
  - (5) Graduate ranking refers to the GPA ranking among students graduating in the same academic year.

七、 成績排名原則：

VII. Principles for Grade Ranking:

- (一) 以系、所、學位學程、班級及學籍分組分別進行排名。
- (1) Ranking shall be calculated for students according to their affiliated unit.
- (二) 學士班以各年級為群組分別進行排名，延畢生併入最高年級進行排名；研究生（含碩士班、碩士在職專班及博士班）以各年級為群組分別進行排名，惟延長修業年限者，併入最高年級進行排名。
- (2) Undergraduate students shall be ranked with those in the same study grade, and those deferring their graduation with the current senior class. Graduate students (including master's programs, in-service master's program and doctoral program) shall be ranked with those in the same study grade, and those extending their period of studies with those in the highest grade level.
- (三) 自107學年度起，學士班學生（含延畢生）當學期修習學分數未達9學分者，不計入學期成績排名，但其修習學分數及成績仍採計為其他種類之成績排名。
- (3) From the 2018 academic year onwards, students (including deferred graduation students) who take less than nine (9) credits shall not be included in the ranking of that semester, but the number of credits and grades they received shall still be considered for other ranking categories.
- (四) 以通過、不通過評量之科目，以及博(碩)士學位考試成績，不計入各項成績排名。
- (4) Courses given either pass or fail as the measure of assessment and the grade of master's and doctoral degree examination shall not be factored into any of the grade rankings.

## 八、 成績排名作業：

### VIII. Procedure for Grade Ranking:

- (一) 成績排名於每學期註冊日後第三週排定。未依本校「教師繳交及更正學期成績辦法」規定期限繳交之成績，該科成績不計入當學期排名，併入次一學期成績排名。
- (1) Grade rankings for the last semester shall be finalized on the third week of the new semester. For grades that are not submitted within the time limit specified in the University *Guidelines for the Instructor to Submit and Correct Grade Reports*, the grade of the subject will not be included in the ranking of the current semester

and will be included in the ranking of the next semester.

- (二) 學生名次排定後，除有特殊原因經教務會議通過或簽請校長核定者，不得再重新排定。
- (2) Grade rankings shall not be altered unless there is a special circumstance approved by the Academic Affairs Council meeting and the President.
- (三) 前款成績排名若有更正，應由註冊組於核定日起二週內通知系所及學生，以更正後之成績排名為準。
- (3) If there is any correction of rankings, the Registration Division of the OAA shall notify corresponding department/institute and students within two weeks from the confirmation date. The revised ranking shall then be deemed as the official one.

九、 經本校核准之境外交換生及國內交換生，以在學身份於境外或校外修習之學分，得依本校「辦理學生抵免學分辦法」申請抵免，惟學生所屬系所無名稱、內容或性質相同之課程可辦理抵免者，得以認列學分之方式辦理。

IX. Overseas and domestic exchange students who receive credits from a partner university are eligible for credit transfer in accordance with the *Regulations for Credit Transfer*. However, for those courses without the same title, content, or nature in students' affiliated unit, they may apply for credit recognition instead.

- (一) 認列學分需符合本校學則規定之成績及格標準始能申請，並應由學生檢附就讀學校之成績單正本(或成績證明書)及相關授課證明(應含授課時數及註明修習之科目為大學部或研究所)，經所屬系所審定同意，送註冊組核定後採計學分，登錄於本校歷年成績單。
- (1) To qualify for course credit recognition, students shall submit an original transcript (or a certificate of academic record) of passing grades that meet the standard stipulated in the University's *Academic Regulations* and a proof of courses taken (indicating the number of course hours in a bachelor's or master's program) to their affiliated unit for review. These documents shall be approved by the affiliated unit and then be forwarded to the Registration Division of the OAA for approval. After completing the entire process, credits will be formally recognized and added to the complete transcript.
- (二) 通過認列學分之成績不計入各項成績排名。

- (2) The recognized credits shall not be included in any of grade rankings.
- (三) 學生修習境外課程之「中文科目名稱」由系所主管認定。
- (3) The Chinese titles of courses taken overseas shall be determined and approved by the head of the unit.
- (四) 應屆畢業生需採計認列學分始符合畢業資格者，至遲需於次學期上課開始日前完成審核作業，逾期次學期仍應辦理註冊。
- (4) Graduates-to-be who need recognized credits for graduation shall complete the review procedure before the first date of class in the upcoming semester. Those failing to do so shall still enroll for the next semester.
- (五) 認列學分數需納入本校「辦理學生抵免學分辦法」第四條第二項之抵免學分採計上限。
- (5) The maximum number of credits that can be recognized shall comply with the restriction of transferrable credits stipulated in Paragraph 2 of Article 4 of the *Regulation for Credit Transfer*.

十、 本要點經教務會議通過後實施，修正時亦同。

X. These guidelines are approved by the Academic Affairs Council and the President before implementation. Amendments to these guidelines shall follow the same procedure.

附表一 等第制與百分制單科成績對照表

等第制		百分制	
等第成績 (Grade)	等第積分 (Grade Point)	區間	中間值
A+	4.3	90~100	95
A	4.0	85~89	87
A-	3.7	80~84	82
B+	3.3	77~79	78
B	3.0	73~76	75
B- (研究生及格標準)	2.7	70~72	71
C+	2.3	67~69	68
C	2.0	63~66	65
C- (學士班及格標準)	1.7	60~62	61
D	1.0	50~59	55
E	0.8	40~49	45
F	0	39(含)以下	20
X	0	0	0

A+：所有目標皆達成且超越期望

A：所有目標皆達成

A-：所有目標皆達成，但需一些精進

B+：達成部分目標，且品質佳

B：達成部分目標，但品質普通

B-：達成部分目標，但有些缺失

C+：達成最低目標

C：達成最低目標，但有些缺失

C-：達成最低目標但有重大缺失

D：未達成最低目標

E：未達成最低目標，且令人失望

F：所有目標皆未達成

X：因故不核予成績(例如：考試全部 0 分、考試作弊 0 分等等)

## Appendix 1

### Converting Chart between Percentage Grade System and Letter Grade System

Letter grade system		Percentage grade system	
Grade	Grade point	Grade	Grade point
A+	4.3	90~100	95
A	4.0	85~89	87
A-	3.7	80~84	82
B+	3.3	77~79	78
B	3.0	73~76	75
B-	2.7	70~72	71
(passing grade for graduate students)			
C+	2.3	67~69	68
C	2.0	63~66	65
C-	1.7	60~62	61
(passing grade for undergraduate students)			
D	1.0	50~59	55
E	0.8	40~49	45
F	0	Less than 39	20
X	0	0	0

A+: All goals are achieved beyond expectation.

A: All goals are achieved.

A-: All goals are achieved, but need some polish.

B+: Partial goals are well achieved.

B: Partial goals are adequately achieved.

B-: Partial goals are achieved with minor flaws.

C+: Minimum goals are met.

C: Minimum goals are met with some minor flaws.

C-: Minimum goals are met with significant deficiencies.

D: Minimum goals are not met.

E: Minimum goals are not met and the performance is disappointing.

F: None goal is met.

X: No grade is given due to specific reasons (e.g. 0 point for all courses, 0 point due to cheating in the examination)

附表二 學業平均成績GPA換算百分數對照表（僅供GPA單向對應百分數）

GPA	對應之百分數	間距差															
4.3	100		3.67	83.63	0.12	3.04	76.40	0.1	2.41	69.83	0.07	1.78	61.6	0.2	1.15	52.14	0.15
4.29	99.63	0.37	3.66	83.50	0.13	3.03	76.30	0.1	2.40	69.75	0.08	1.77	61.4	0.2	1.14	52.00	0.14
4.28	99.27	0.36	3.65	83.38	0.12	3.02	76.20	0.1	2.39	69.68	0.07	1.76	61.2	0.2	1.13	51.86	0.14
4.27	98.90	0.37	3.64	83.25	0.13	3.01	76.10	0.1	2.38	69.60	0.08	1.75	61.00	0.2	1.12	51.71	0.15
4.26	98.53	0.37	3.63	83.13	0.12	3.00	76.00	0.1	2.37	69.53	0.07	1.74	60.80	0.2	1.11	51.57	0.14
4.25	98.17	0.36	3.62	83.00	0.13	2.99	75.87	0.13	2.36	69.45	0.08	1.73	60.60	0.2	1.10	51.43	0.14
4.24	97.80	0.37	3.61	82.88	0.12	2.98	75.73	0.14	2.35	69.38	0.07	1.72	60.40	0.2	1.09	51.29	0.14
4.23	97.43	0.37	3.60	82.75	0.13	2.97	75.60	0.13	2.34	69.3	0.08	1.71	60.20	0.2	1.08	51.14	0.15
4.22	97.07	0.36	3.59	82.63	0.12	2.96	75.47	0.13	2.33	69.23	0.07	1.70	60.00	0.2	1.07	51.00	0.14
4.21	96.70	0.37	3.58	82.5	0.13	2.95	75.33	0.14	2.32	69.15	0.08	1.69	59.86	0.15	1.06	50.86	0.14
4.20	96.33	0.37	3.57	82.38	0.12	2.94	75.20	0.13	2.31	69.08	0.07	1.68	59.71	0.15	1.05	50.71	0.15
4.19	95.97	0.36	3.56	82.25	0.13	2.93	75.07	0.13	2.30	69.00	0.08	1.67	59.57	0.14	1.04	50.57	0.14
4.18	95.60	0.37	3.55	82.13	0.12	2.92	74.93	0.14	2.29	68.90	0.1	1.66	59.43	0.14	1.03	50.43	0.14
4.17	95.23	0.37	3.54	82.00	0.13	2.91	74.80	0.13	2.28	68.80	0.1	1.65	59.29	0.14	1.02	50.29	0.14
4.16	94.87	0.36	3.53	81.88	0.12	2.90	74.67	0.13	2.27	68.70	0.1	1.64	59.14	0.15	1.01	50.14	0.15
4.15	94.50	0.37	3.52	81.75	0.13	2.89	74.53	0.14	2.26	68.60	0.1	1.63	59.00	0.14	1.00	50.00	0.14
4.14	94.13	0.37	3.51	81.63	0.12	2.88	74.4	0.13	2.25	68.50	0.1	1.62	58.86	0.14	0.99	49.50	0.5
4.13	93.77	0.36	3.50	81.50	0.13	2.87	74.27	0.13	2.24	68.40	0.1	1.61	58.71	0.15	0.98	49.00	0.5
4.12	93.40	0.37	3.49	81.38	0.12	2.86	74.13	0.14	2.23	68.30	0.1	1.60	58.57	0.14	0.97	48.50	0.5
4.11	93.03	0.37	3.48	81.25	0.13	2.85	74.00	0.13	2.22	68.20	0.1	1.59	58.43	0.14	0.96	48.00	0.5
4.10	92.67	0.36	3.47	81.13	0.12	2.84	73.87	0.13	2.21	68.10	0.1	1.58	58.29	0.14	0.95	47.50	0.5
4.09	92.30	0.37	3.46	81.00	0.13	2.83	73.73	0.14	2.20	68.00	0.1	1.57	58.14	0.15	0.94	47.00	0.5
4.08	91.93	0.37	3.45	80.88	0.12	2.82	73.60	0.13	2.19	67.90	0.1	1.56	58.00	0.14	0.93	46.50	0.5
4.07	91.57	0.36	3.44	80.75	0.13	2.81	73.47	0.13	2.18	67.80	0.1	1.55	57.86	0.14	0.92	46.00	0.5
4.06	91.20	0.37	3.43	80.63	0.12	2.80	73.33	0.14	2.17	67.70	0.1	1.54	57.71	0.15	0.91	45.50	0.5
4.05	90.83	0.37	3.42	80.5	0.13	2.79	73.20	0.13	2.16	67.60	0.1	1.53	57.57	0.14	0.90	45.00	0.5
4.04	90.47	0.36	3.41	80.38	0.12	2.78	73.07	0.13	2.15	67.50	0.1	1.52	57.43	0.14	0.89	44.50	0.5
4.03	90.10	0.37	3.40	80.25	0.13	2.77	72.93	0.14	2.14	67.40	0.1	1.51	57.29	0.14	0.88	44.00	0.5
4.02	89.73	0.37	3.39	80.13	0.12	2.76	72.80	0.13	2.13	67.30	0.1	1.50	57.14	0.15	0.87	43.50	0.5
4.01	89.37	0.36	3.38	80.00	0.13	2.75	72.67	0.13	2.12	67.20	0.1	1.49	57.00	0.14	0.86	43.00	0.5
4.00	89.00	0.37	3.37	79.88	0.12	2.74	72.53	0.14	2.11	67.10	0.1	1.48	56.86	0.14	0.85	42.50	0.5
3.99	88.83	0.17	3.36	79.75	0.13	2.73	72.40	0.13	2.10	67.00	0.1	1.47	56.71	0.15	0.84	42.00	0.5
3.98	88.67	0.16	3.35	79.63	0.12	2.72	72.27	0.13	2.09	66.90	0.1	1.46	56.57	0.14	0.83	41.50	0.5
3.97	88.50	0.17	3.34	79.50	0.13	2.71	72.13	0.14	2.08	66.80	0.1	1.45	56.43	0.14	0.82	41.00	0.5
3.96	88.33	0.17	3.33	79.38	0.12	2.70	72.00	0.13	2.07	66.70	0.1	1.44	56.29	0.14	0.81	40.50	0.5
3.95	88.17	0.16	3.32	79.25	0.13	2.69	71.93	0.07	2.06	66.60	0.1	1.43	56.14	0.15	0.80	40.00	0.5
3.94	88.00	0.17	3.31	79.13	0.12	2.68	71.85	0.08	2.05	66.50	0.1	1.42	56.00	0.14	0.79	39.50	0.5
3.93	87.83	0.17	3.30	79.00	0.13	2.67	71.78	0.07	2.04	66.40	0.1	1.41	55.86	0.14	0.78	39.00	0.5
3.92	87.67	0.16	3.29	78.90	0.1	2.66	71.70	0.08	2.03	66.30	0.1	1.40	55.71	0.15	0.77	38.50	0.5
3.91	87.50	0.17	3.28	78.80	0.1	2.65	71.63	0.07	2.02	66.20	0.1	1.39	55.57	0.14	0.76	38.00	0.5
3.90	87.33	0.17	3.27	78.70	0.1	2.64	71.55	0.08	2.01	66.10	0.1	1.38	55.43	0.14	0.75	37.50	0.5
3.89	87.17	0.16	3.26	78.60	0.1	2.63	71.48	0.07	2.00	66.00	0.1	1.37	55.29	0.14	0.74	37.00	0.5
3.88	87.00	0.17	3.25	78.50	0.1	2.62	71.40	0.08	1.99	65.80	0.2	1.36	55.14	0.15	0.73	36.50	0.5
3.87	86.83	0.17	3.24	78.40	0.1	2.61	71.33	0.07	1.98	65.60	0.2	1.35	55.00	0.14	0.72	36.00	0.5
3.86	86.67	0.16	3.23	78.30	0.1	2.60	71.25	0.08	1.97	65.40	0.2	1.34	54.86	0.14	0.71	35.50	0.5
3.85	86.50	0.17	3.22	78.20	0.1	2.59	71.18	0.07	1.96	65.20	0.2	1.33	54.71	0.15	0.70	35.00	0.5
3.84	86.33	0.17	3.21	78.10	0.1	2.58	71.10	0.08	1.95	65.00	0.2	1.32	54.57	0.14	0.69	34.50	0.5
3.83	86.17	0.16	3.20	78.00	0.1	2.57	71.03	0.07	1.94	64.80	0.2	1.31	54.43	0.14	0.68	34.00	0.5
3.82	86.00	0.17	3.19	77.90	0.1	2.56	70.95	0.08	1.93	64.60	0.2	1.30	54.29	0.14	0.67	33.50	0.5
3.81	85.83	0.17	3.18	77.80	0.1	2.55	70.88	0.07	1.92	64.40	0.2	1.29	54.14	0.15	0.66	33.00	0.5
3.80	85.67	0.16	3.17	77.70	0.1	2.54	70.80	0.08	1.91	64.20	0.2	1.28	54.00	0.14	0.65	32.50	0.5
3.79	85.50	0.17	3.16	77.60	0.1	2.53	70.73	0.07	1.90	64.00	0.2	1.27	53.86	0.14	0.64	32.00	0.5
3.78	85.33	0.17	3.15	77.50	0.1	2.52	70.65	0.08	1.89	63.80	0.2	1.26	53.71	0.15	0.63	31.50	0.5
3.77	85.17	0.16	3.14	77.40	0.1	2.51	70.58	0.07	1.88	63.60	0.2	1.25	53.57	0.14	0.62	31.00	0.5
3.76	85.00	0.17	3.13	77.30	0.1	2.50	70.50	0.08	1.87	63.40	0.2	1.24	53.43	0.14	0.61	30.50	0.5
3.75	84.83	0.17	3.12	77.20	0.1	2.49	70.43	0.07	1.86	63.20	0.2	1.23	53.29	0.14	0.60	30.00	0.5
3.74	84.67	0.16	3.11	77.10	0.1	2.48	70.35	0.08	1.85	63.00	0.2	1.22	53.14	0.15	0.59	29.50	0.5
3.73	84.5	0.17	3.10	77.00	0.1	2.47	70.28	0.07	1.84	62.80	0.2	1.21	53.00	0.14	0.58	29.00	0.5
3.72	84.33	0.17	3.09	76.90	0.1	2.46	70.20	0.08	1.83	62.60	0.2	1.20	52.86	0.14	0.57	28.50	0.5
3.71	84.17	0.16	3.08	76.80	0.1	2.45	70.13	0.07	1.82	62.40	0.2	1.19	52.71	0.15	0.56	28.00	0.5
3.70	84.00	0.17	3.07	76.70	0.1	2.44	70.05	0.08	1.81	62.20	0.2	1.18	52.57	0.14	0.55	27.50	0.5
3.69	83.88	0.12	3.06	76.60	0.1	2.43	69.98	0.07	1.80	62.00	0.2	1.17	52.43	0.14	0.54	27.00	0.5
3.68	83.75	0.13	3.05	76.50	0.08	2.42	69.9	0.0									

## Appendix 2

**Table for Converting GPA to Percentage Grades**

GPA	Corresponding grade	Difference																		
4.3	100		3.67	83.63	0.12	3.04	76.40	0.1	2.41	69.83	0.07	1.78	61.6	0.2	1.15	52.14	0.15	0.52	26.00	0.5
4.29	99.63	0.37	3.66	83.50	0.13	3.03	76.30	0.1	2.40	69.75	0.08	1.77	61.4	0.2	1.14	52.00	0.14	0.51	25.50	0.5
4.28	99.27	0.36	3.65	83.38	0.12	3.02	76.20	0.1	2.39	69.68	0.07	1.76	61.2	0.2	1.13	51.86	0.14	0.50	25.00	0.5
4.27	98.90	0.37	3.64	83.25	0.13	3.01	76.10	0.1	2.38	69.60	0.08	1.75	61.00	0.2	1.12	51.71	0.15	0.49	24.50	0.5
4.26	98.53	0.37	3.63	83.13	0.12	3.0	76.0	0.01	2.37	69.53	0.07	1.74	60.80	0.2	1.11	51.57	0.14	0.48	24.00	0.5
4.25	98.17	0.36	3.62	83.00	0.13	2.99	75.87		2.36	69.45	0.08	1.73	60.60	0.2	1.10	51.43	0.14	0.47	23.50	0.5
4.24	97.80	0.37	3.61	82.88	0.12	2.98	75.73		2.35	69.38	0.07	1.72	60.40	0.2	1.09	51.29	0.14	0.46	23.00	0.5
4.23	97.43	0.37	3.60	82.75	0.13	2.97	75.60		2.34	69.3	0.08	1.71	60.20	0.2	1.08	51.14	0.15	0.45	22.50	0.5
4.22	97.07	0.36	3.59	82.63	0.12	2.96	75.47		2.33	69.23	0.07	1.7	60.0	0.02	1.07	51.00	0.14	0.44	22.00	0.5
4.21	96.70	0.37	3.58	82.5	0.13	2.95	75.33		2.32	69.15	0.08	1.69	59.86	0.14	1.06	50.86	0.14	0.43	21.50	0.5
4.20	96.33	0.37	3.57	82.38	0.12	2.94	75.20		2.31	69.08	0.07	1.68	59.71	0.15	1.05	50.71	0.15	0.42	21.00	0.5
4.19	95.97	0.36	3.56	82.25	0.13	2.93	75.07		2.3	69.0	0.008	1.67	59.57	0.14	1.04	50.57	0.14	0.41	20.50	0.5
4.18	95.60	0.37	3.55	82.13	0.12	2.92	74.93		2.29	68.90	0.1	1.66	59.43	0.14	1.03	50.43	0.14	0.40	20.00	0.5
4.17	95.23	0.37	3.54	82.00	0.13	2.91	74.80		2.28	68.80	0.1	1.65	59.29	0.14	1.02	50.29	0.14	0.39	19.50	0.5
4.16	94.87	0.36	3.53	81.88	0.12	2.90	74.67		2.27	68.70	0.1	1.64	59.14	0.15	1.01	50.14	0.15	0.38	19.00	0.5
4.15	94.50	0.37	3.52	81.75	0.13	2.89	74.53		2.26	68.60	0.1	1.63	59.00	0.14	1.0	50.0	0.014	0.37	18.50	0.5
4.14	94.13	0.37	3.51	81.63	0.12	2.88	74.4		2.25	68.50	0.1	1.62	58.86	0.14	0.99	49.50	0.5	0.36	18.00	0.5
4.13	93.77	0.36	3.50	81.50	0.13	2.87	74.27		2.24	68.40	0.1	1.61	58.71	0.15	0.98	49.00	0.5	0.35	17.50	0.5
4.12	93.40	0.37	3.49	81.38	0.12	2.86	74.13		2.23	68.30	0.1	1.60	58.57	0.14	0.97	48.50	0.5	0.34	17.00	0.5
4.11	93.03	0.37	3.48	81.25	0.13	2.85	74.00		2.22	68.20	0.1	1.59	58.43	0.14	0.96	48.00	0.5	0.33	16.50	0.5
4.10	92.67	0.36	3.47	81.1	0.12	2.84	73.87		2.21	68.10	0.1	1.58	58.29	0.14	0.95	47.50	0.5	0.32	16.00	0.5
4.09	92.30	0.37	3.46	81.00	0.13	2.83	73.73		2.20	68.00	0.1	1.57	58.14	0.15	0.94	47.00	0.5	0.31	15.50	0.5
4.08	91.93	0.37	3.45	80.88	0.12	2.82	73.60		2.19	67.90	0.1	1.56	58.00	0.14	0.93	46.50	0.5	0.30	15.00	0.5
4.07	91.57	0.36	3.44	80.75	0.13	2.81	73.47		2.18	67.80	0.1	1.55	57.86	0.14	0.92	46.00	0.5	0.29	14.50	0.5
4.06	91.20	0.37	3.43	80.63	0.12	2.80	73.33		2.17	67.70	0.1	1.54	57.71	0.15	0.91	45.50	0.5	0.28	14.00	0.5
4.05	90.83	0.37	3.42	80.5	0.13	2.79	73.20		2.16	67.60	0.1	1.53	57.57	0.14	0.90	45.00	0.5	0.27	13.50	0.5
4.04	90.47	0.36	3.41	80.38	0.12	2.78	73.07		2.15	67.50	0.1	1.52	57.43	0.14	0.89	44.50	0.5	0.26	13.00	0.5
4.03	90.10	0.37	3.40	80.25	0.13	2.77	72.93		2.14	67.40	0.1	1.51	57.29	0.14	0.88	44.00	0.5	0.25	12.50	0.5
4.02	89.73	0.37	3.39	80.13	0.12	2.76	72.80		2.13	67.30	0.1	1.50	57.14	0.15	0.87	43.50	0.5	0.24	12.00	0.5
4.01	89.37	0.36	3.38	80.00	0.13	2.75	72.67		2.12	67.20	0.1	1.49	57.00	0.14	0.86	43.00	0.5	0.23	11.50	0.5
4.0	89.0	0.37	3.37	79.88	0.12	2.74	72.53		2.11	67.10	0.1	1.48	56.86	0.14	0.85	42.50	0.5	0.22	11.00	0.5
3.99	88.83	0.17	3.36	79.75	0.13	2.73	72.40		2.10	67.00	0.1	1.47	56.71	0.15	0.84	42.00	0.5	0.21	10.50	0.5
3.98	88.67	0.16	3.35	79.63	0.12	2.72	72.27		2.09	66.90	0.1	1.46	56.57	0.14	0.83	41.50	0.5	0.20	10.00	0.5
3.97	88.50	0.17	3.34	79.50	0.13	2.71	72.13		2.08	66.80	0.1	1.45	56.43	0.14	0.82	41.00	0.5	0.19	9.50	0.5
3.96	88.33	0.17	3.33	79.38	0.12	2.7	72.0		2.07	66.70	0.1	1.44	56.29	0.14	0.81	40.50	0.5	0.18	9.00	0.5
3.95	88.17	0.16	3.32	79.25	0.13	2.69	71.93		2.06	66.60	0.1	1.43	56.14	0.15	0.8	40.0	0.05	0.17	8.50	0.5
3.94	88.00	0.17	3.31	79.13	0.12	2.68	71.85		2.0	66.5	0.01	1.42	56.00	0.14	0.79	39.50	0.5	0.16	8.00	0.5
3.93	87.83	0.17	3.30	79.0	0.13	2.67	71.78		2.04	66.40	0.1	1.41	55.86	0.14	0.78	39.00	0.5	0.15	7.50	0.5
3.92	87.67	0.16	3.29	78.90	0.1	2.66	71.70		2.03	66.30	0.1	1.40	55.71	0.15	0.77	38.50	0.5	0.14	7.00	0.5
3.91	87.50	0.17	3.28	78.80	0.1	2.65	71.63		2.02	66.20	0.1	1.39	55.57	0.14	0.76	38.00	0.5	0.13	6.50	0.5
3.90	87.33	0.17	3.27	78.70	0.1	2.64	71.55		2.01	66.10	0.1	1.38	55.43	0.14	0.75	37.50	0.5	0.12	6.00	0.5
3.89	87.17	0.16	3.26	78.60	0.1	2.63	71.48		2.0	66.0	0.1	1.37	55.29	0.14	0.74	37.00	0.5	0.11	5.50	0.5
3.88	87.00	0.17	3.25	78.50	0.1	2.62	71.40		1.99	65.80	0.2	1.36	55.14	0.15	0.73	36.50	0.5	0.10	5.00	0.5
3.87	86.83	0.17	3.24	78.40	0.1	2.61	71.33		1.98	65.60	0.2	1.35	55.00	0.14	0.72	36.00	0.5	0.09	4.50	0.5
3.86	86.67	0.16	3.23	78.30	0.1	2.60	71.25		1.97	65.40	0.2	1.34	54.86	0.14	0.71	35.50	0.5	0.08	4.00	0.5
3.85	86.50	0.17	3.22	78.20	0.1	2.59	71.18		1.96	65.20	0.2	1.33	54.71	0.15	0.70	35.00	0.5	0.07	3.50	0.5
3.84	86.33	0.17	3.21	78.10	0.1	2.58	71.10		1.95	65.00	0.2	1.32	54.57	0.14	0.69	34.50	0.5	0.06	3.00	0.5
3.83	86.17	0.16	3.20	78.00	0.1	2.57	71.03		1.94	64.80	0.2	1.31	54.43	0.14	0.68	34.00	0.5	0.05	2.50	0.5
3.82	86.00	0.17	3.19	77.90	0.1	2.56	70.95		1.93	64.60	0.2	1.30	54.29	0.14	0.67	33.50	0.5	0.04	2.00	0.5
3.81	85.83	0.17	3.18	77.80	0.1	2.55	70.88		1.92	64.40	0.2	1.29	54.14	0.15	0.66	33.00	0.5	0.03	1.50	0.5
3.80	85.67	0.16	3.17	77.70	0.1	2.54	70.80		1.91	64.20	0.2	1.28	54.00	0.14	0.65	32.50	0.5	0.02	1.00	0.5
3.79	85.50	0.17	3.16	77.60	0.1	2.53	70.73		1.90	64.00	0.2	1.27	53.86	0.14	0.64	32.00	0.5	0.01	0.50	0.5
3.78	85.33	0.17	3.15	77.50	0.1	2.52	70.65		1.89	63.80	0.2	1.26	53.71	0.15	0.63	31.50	0.5	0	0	0.5
3.77	85.17	0.16	3.14	77.40	0.1	2.51	70.58		1.88	63.60	0.2	1.25	53.57	0.14	0.62	31.00	0.5			
3.76	85.00	0.17	3.13	77.30	0.1	2.50	70.50		1.87	63.40	0.2	1.24	53.43	0.14	0.61	30.50	0.5			
3.75	84.83	0.17	3.12	77.20	0.1	2.49	70.43		1.86	63.20	0.2	1								