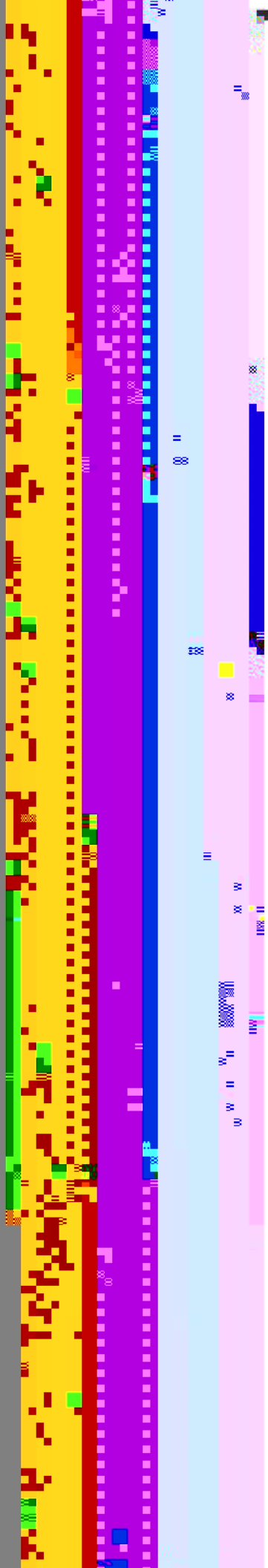


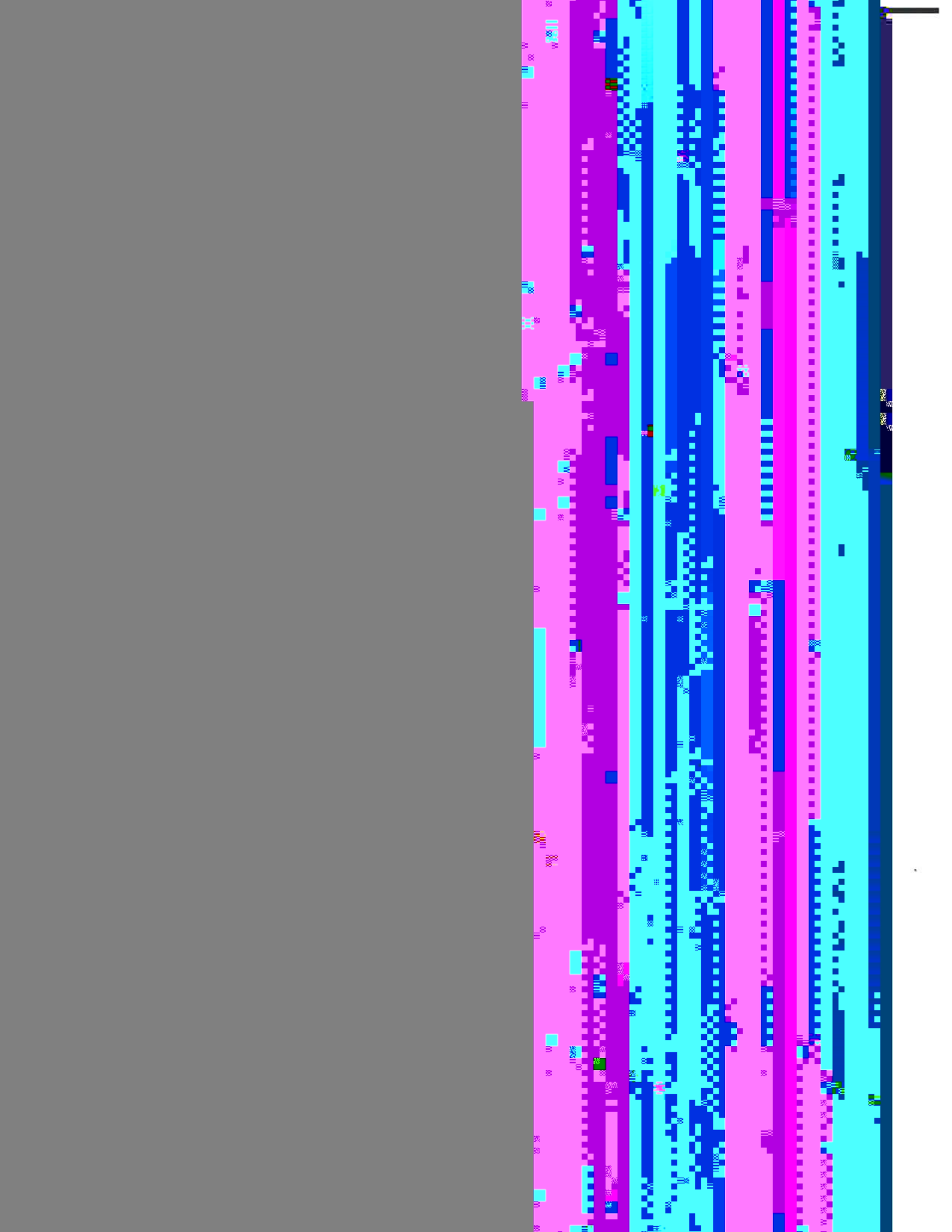
A MICROCOMPUTER SOFTWARE SYSTEM FOR THE
AUTOMATIC REDUCTION OF GAMMA SPECTRAL DATA

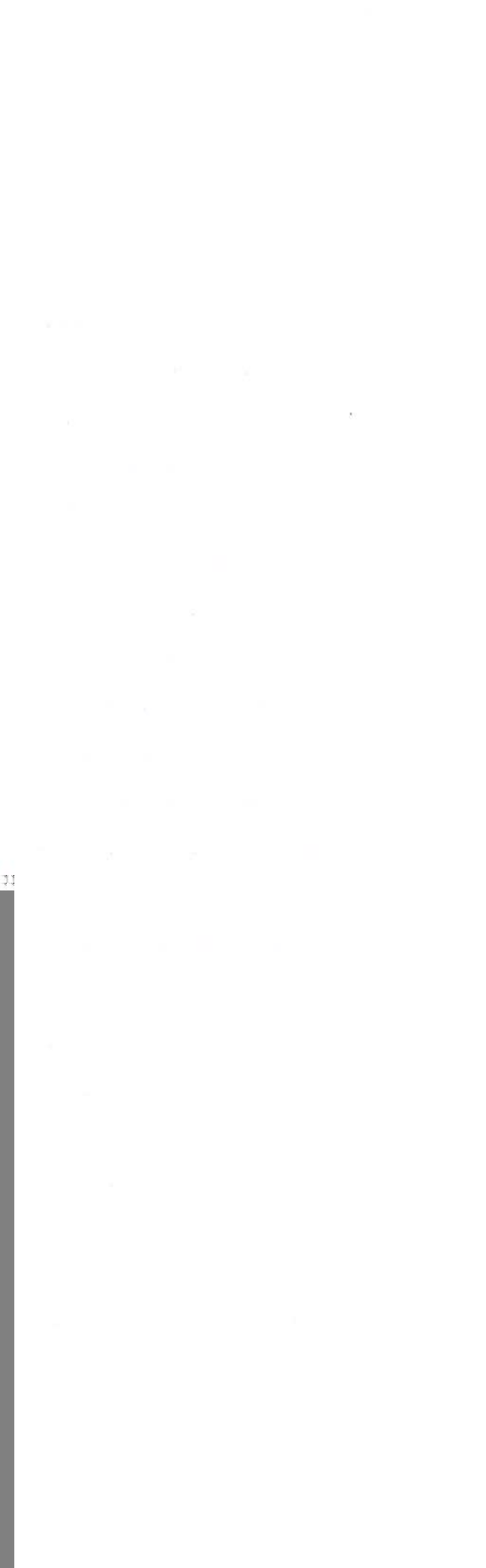
by
Kendrick Vernon Hagus
B.S., Louisiana State University, 1978
May, 1980



Dedicated to our baby







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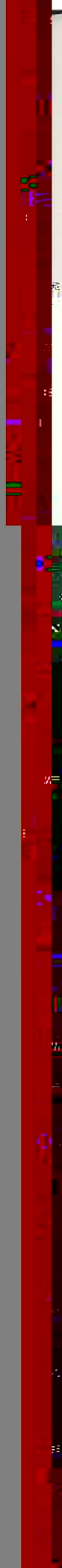
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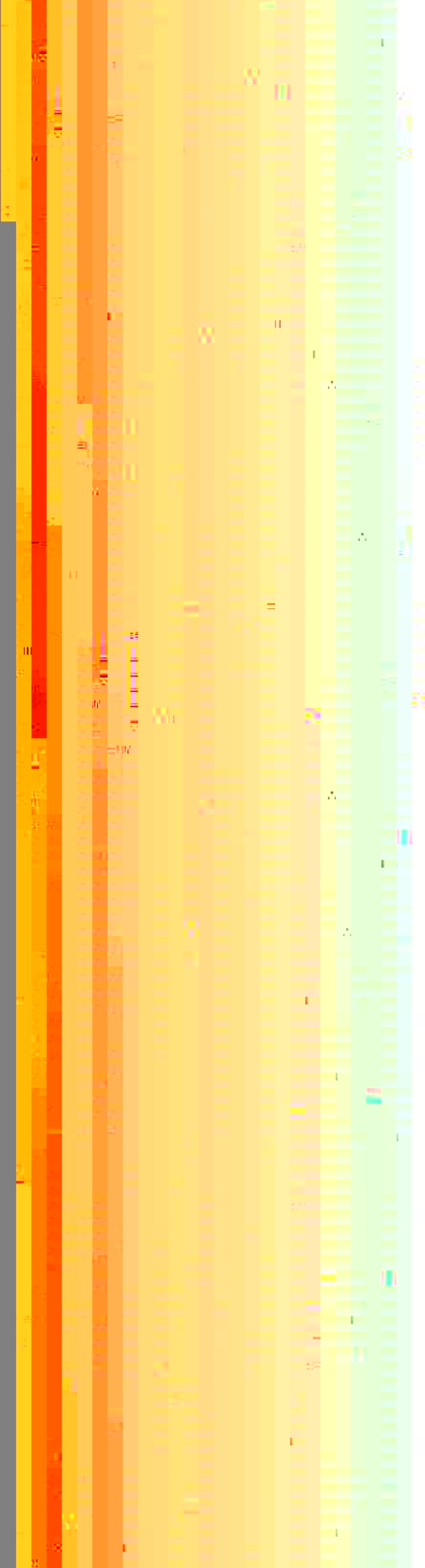
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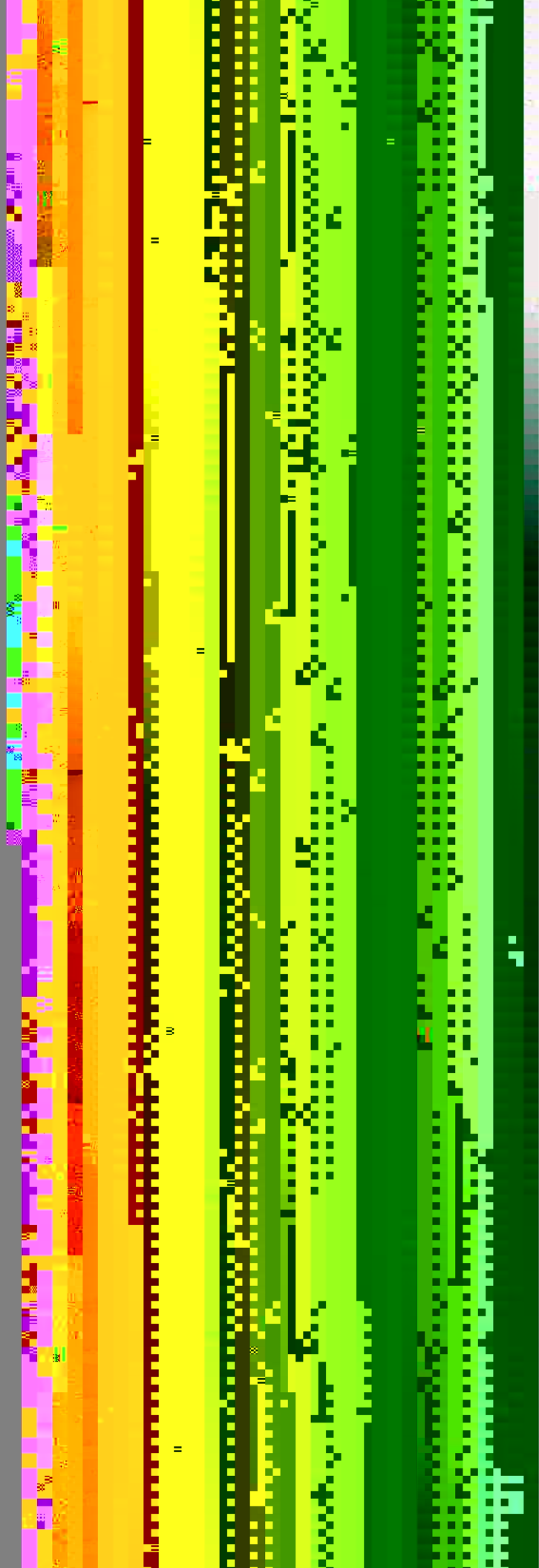
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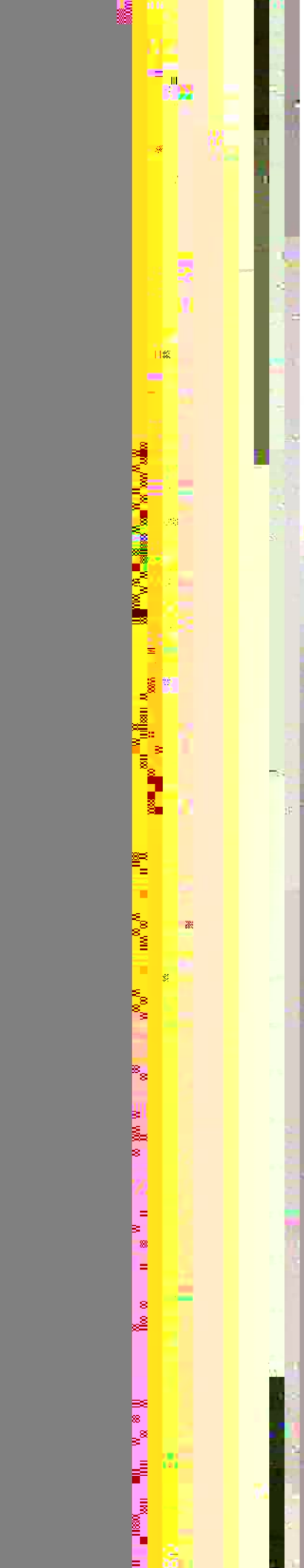
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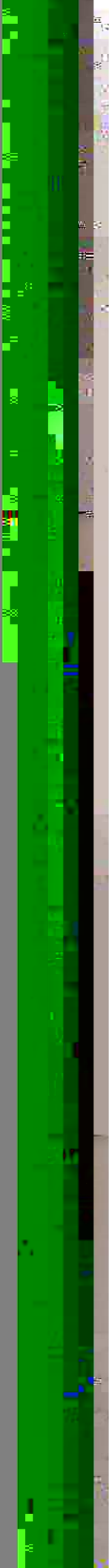
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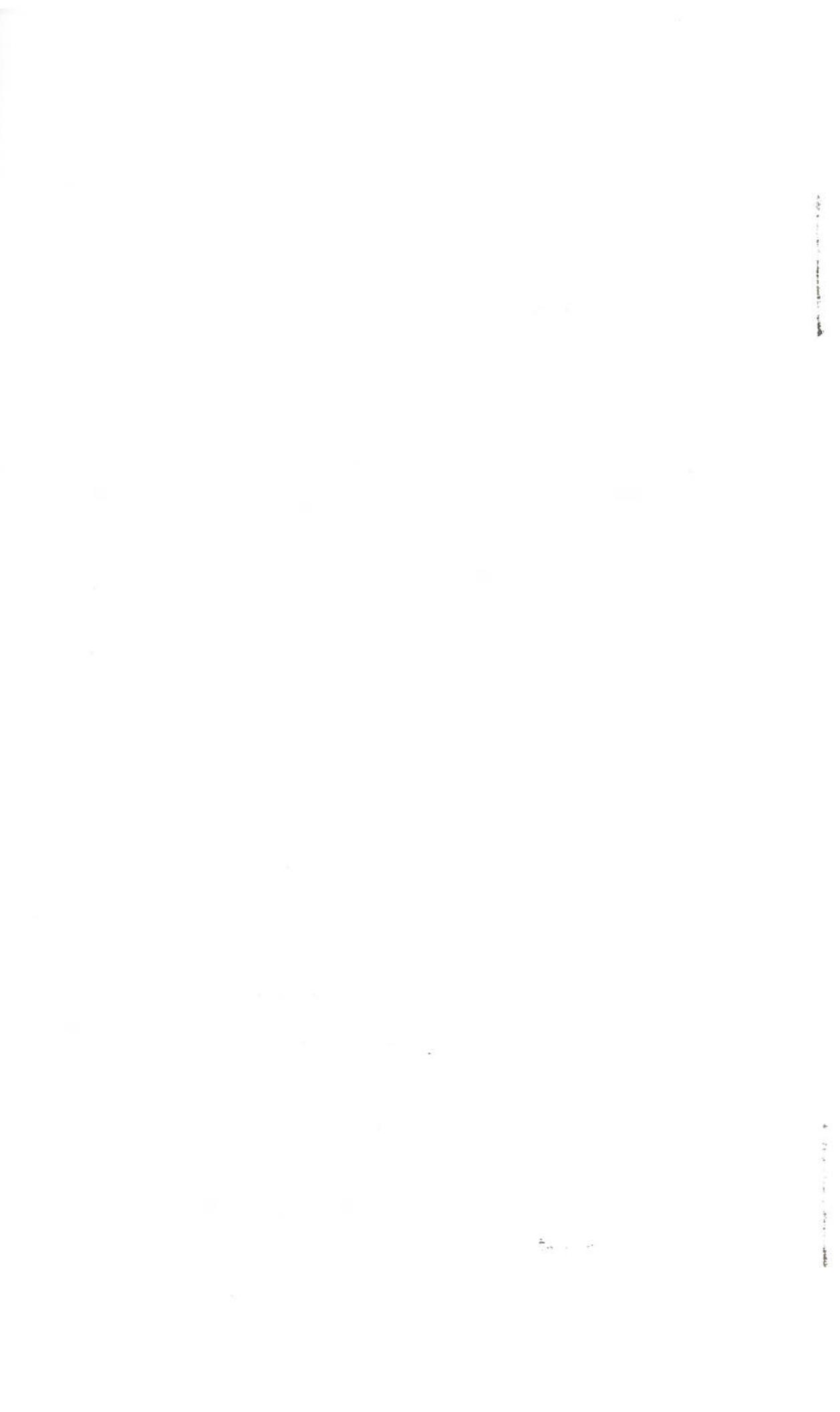
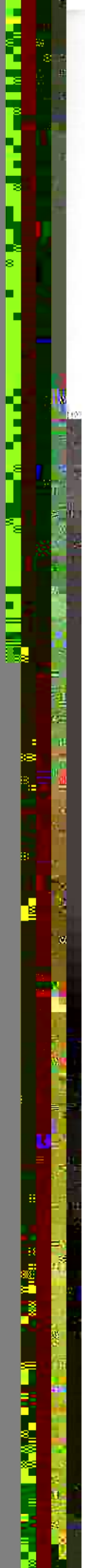


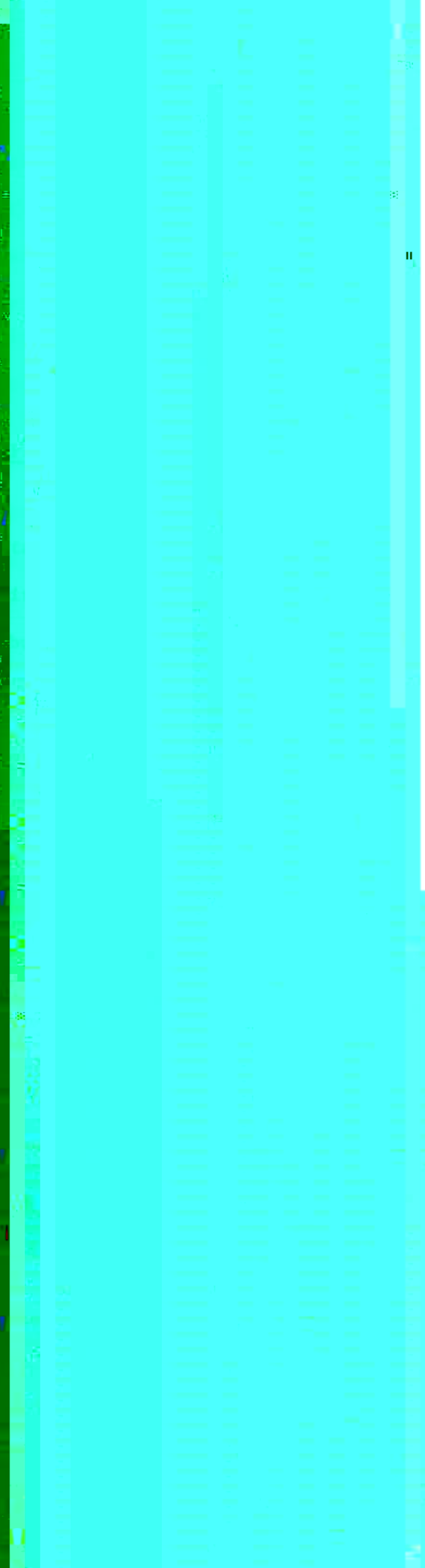
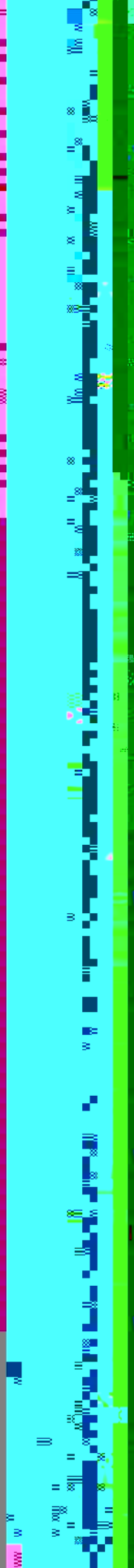
0111

Summarizing, it is believed that the program system written satisfies the requirements of the users at the Nuclear Science Center. Detailed descriptions of the programs are given in the next chapter, and the results obtained by their use during tests are shown in Chapter 4.









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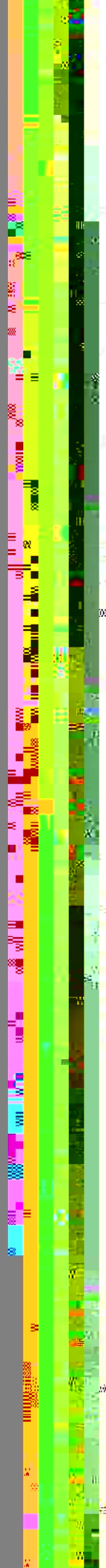
Page 19

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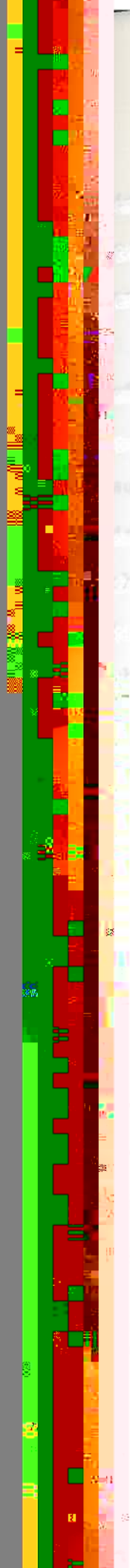
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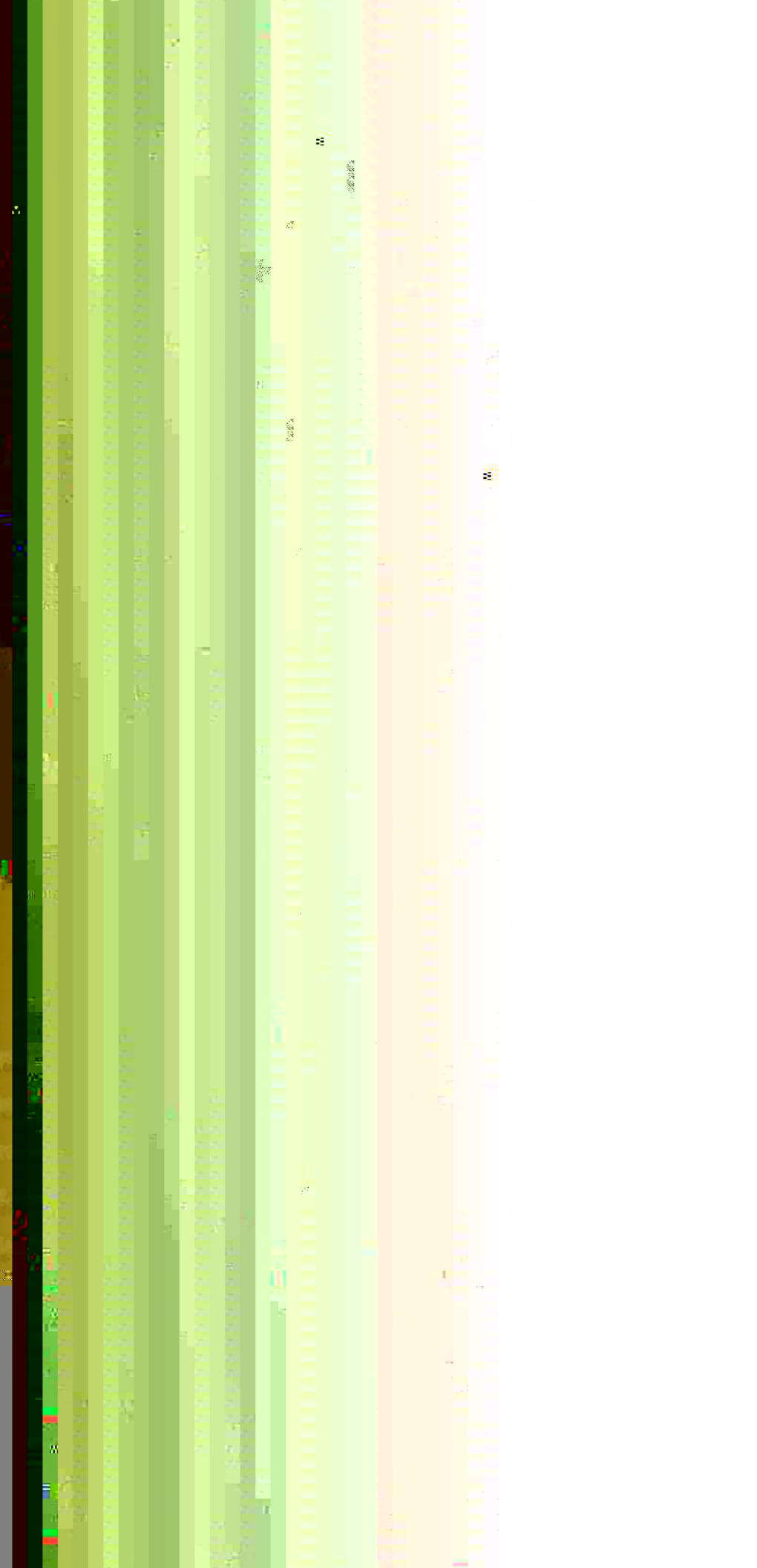
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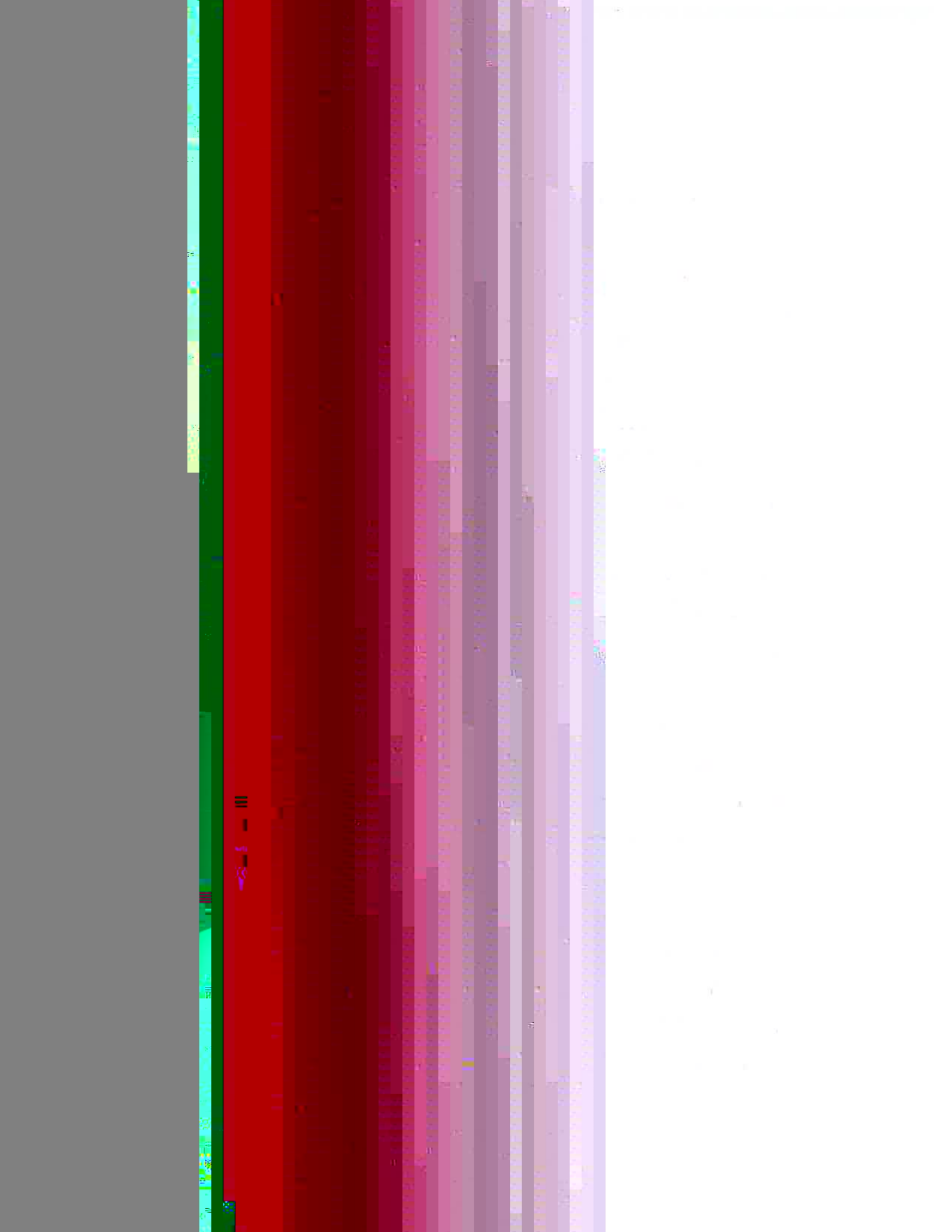
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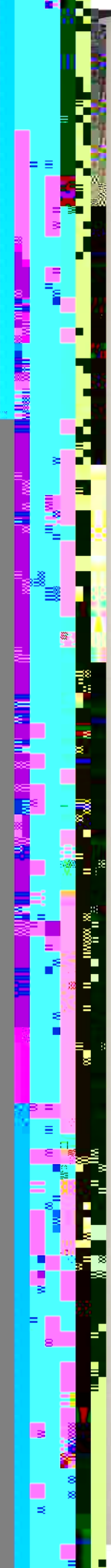
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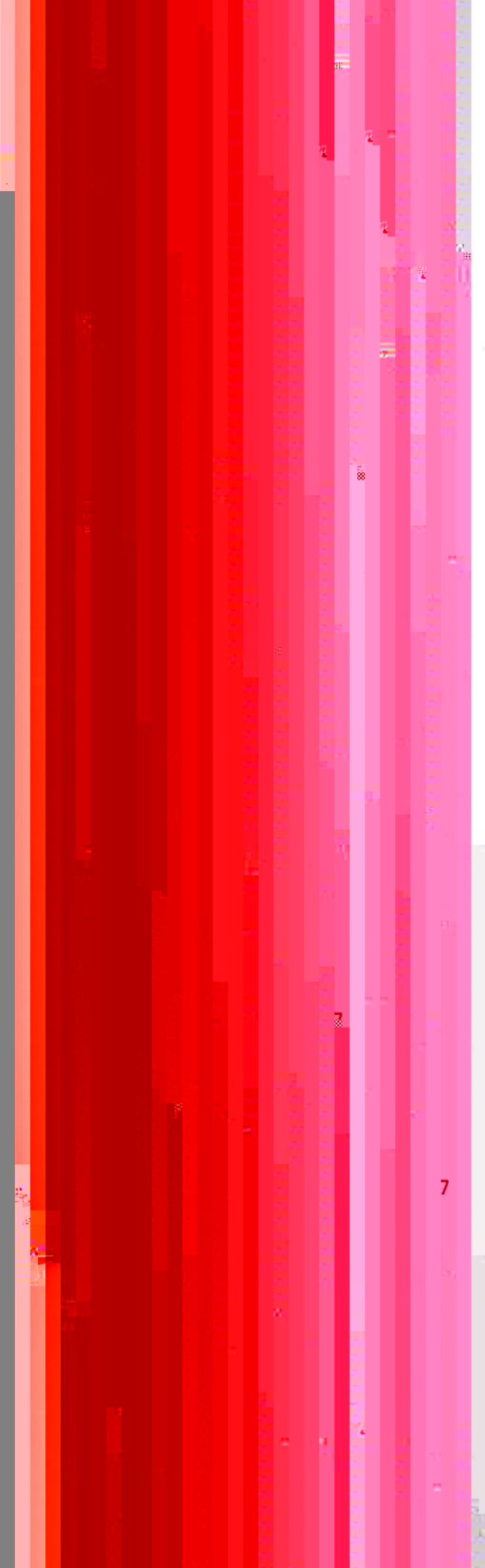
171







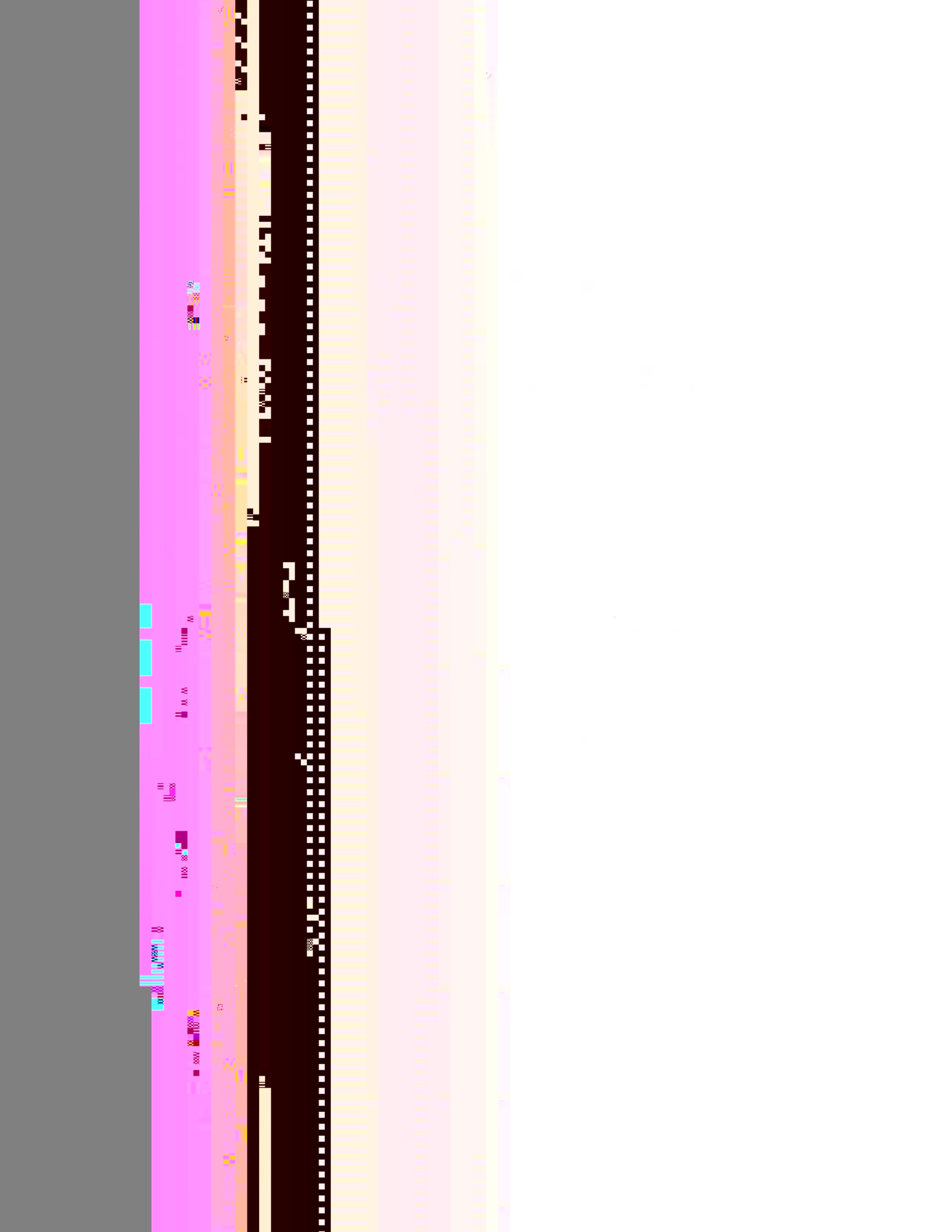




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TABLE 4-2
COMPARISON OF KNOWN GAMMA ENERGIES
TO THOSE CALCULATED BY PROGRAM







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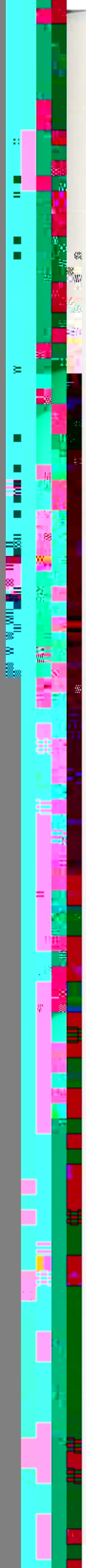
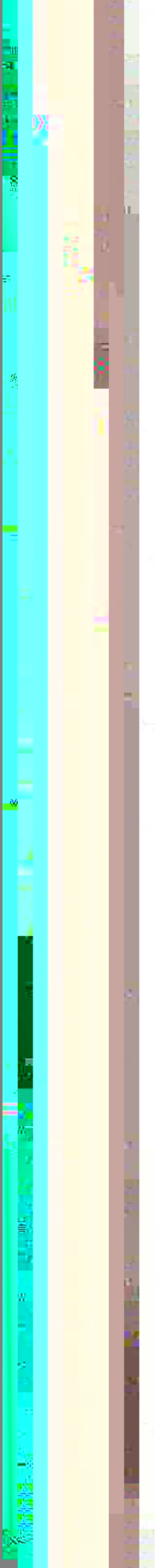




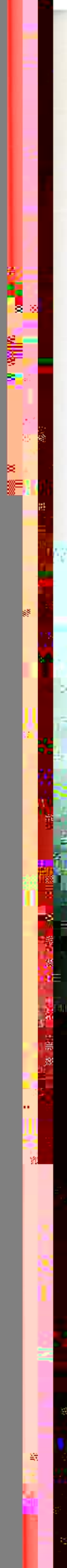


TABLE 4-9

EXAMPLE RESULTS OF QUANTITATIVE ANALYSIS PROGRAM







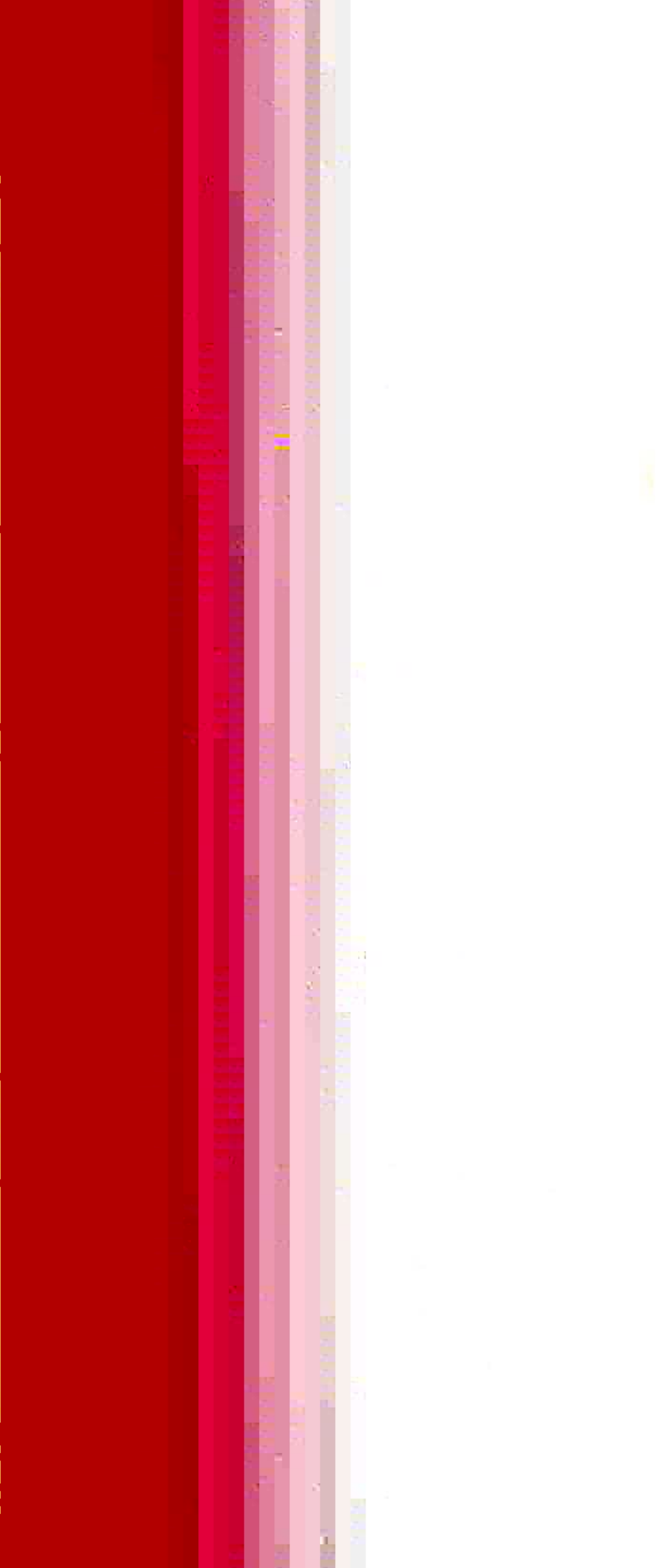
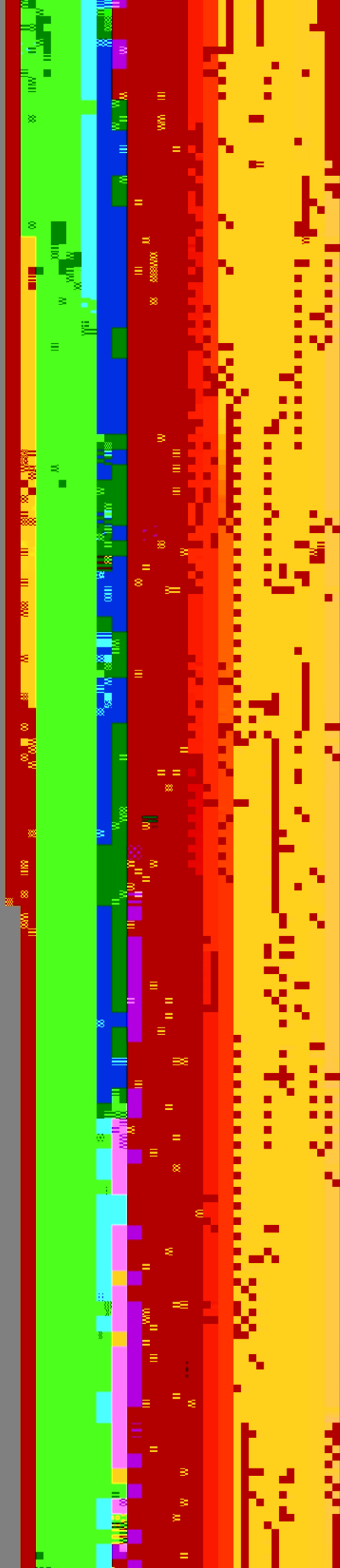
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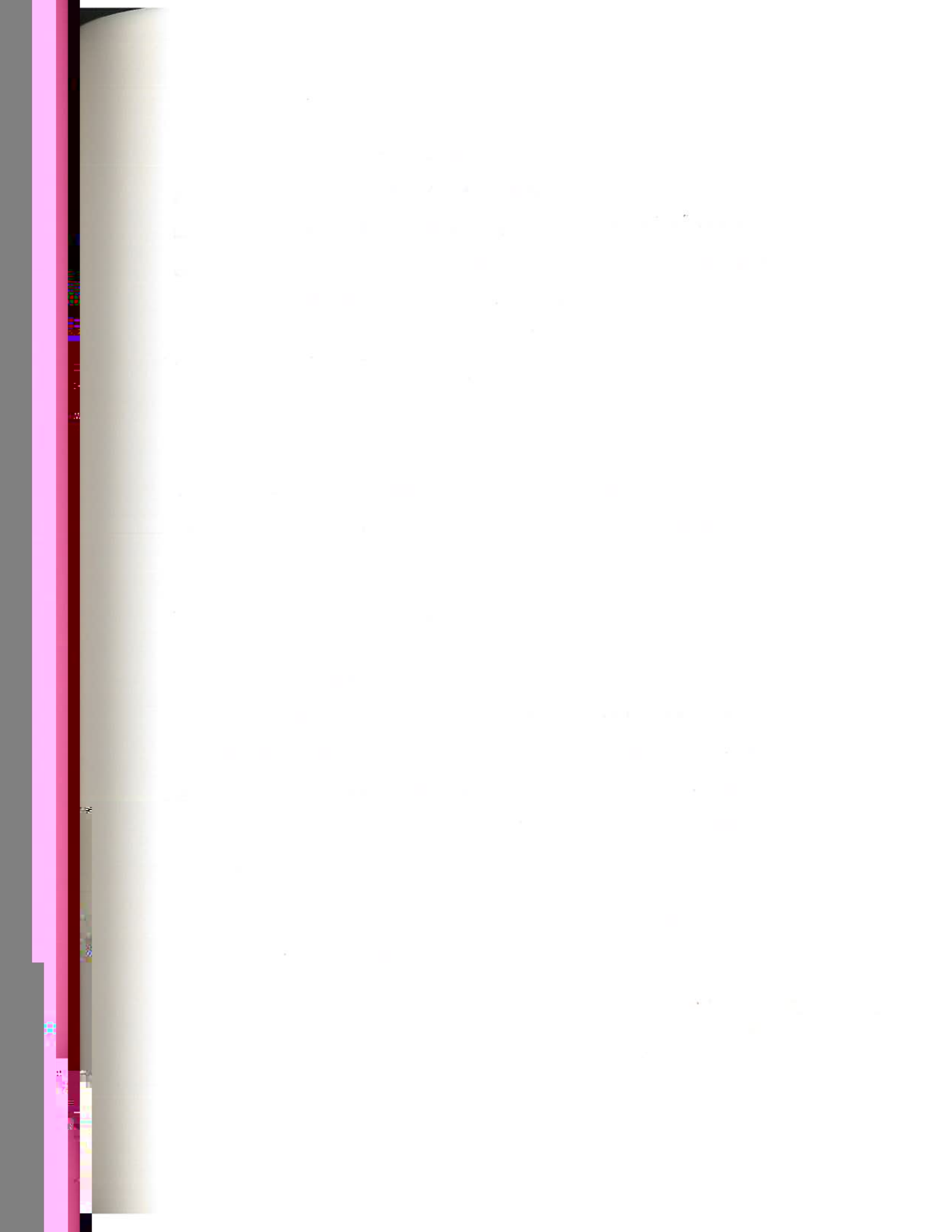
APPENDIX A

CURRENT ENTRIES IN ISOTOPE LIBRARY

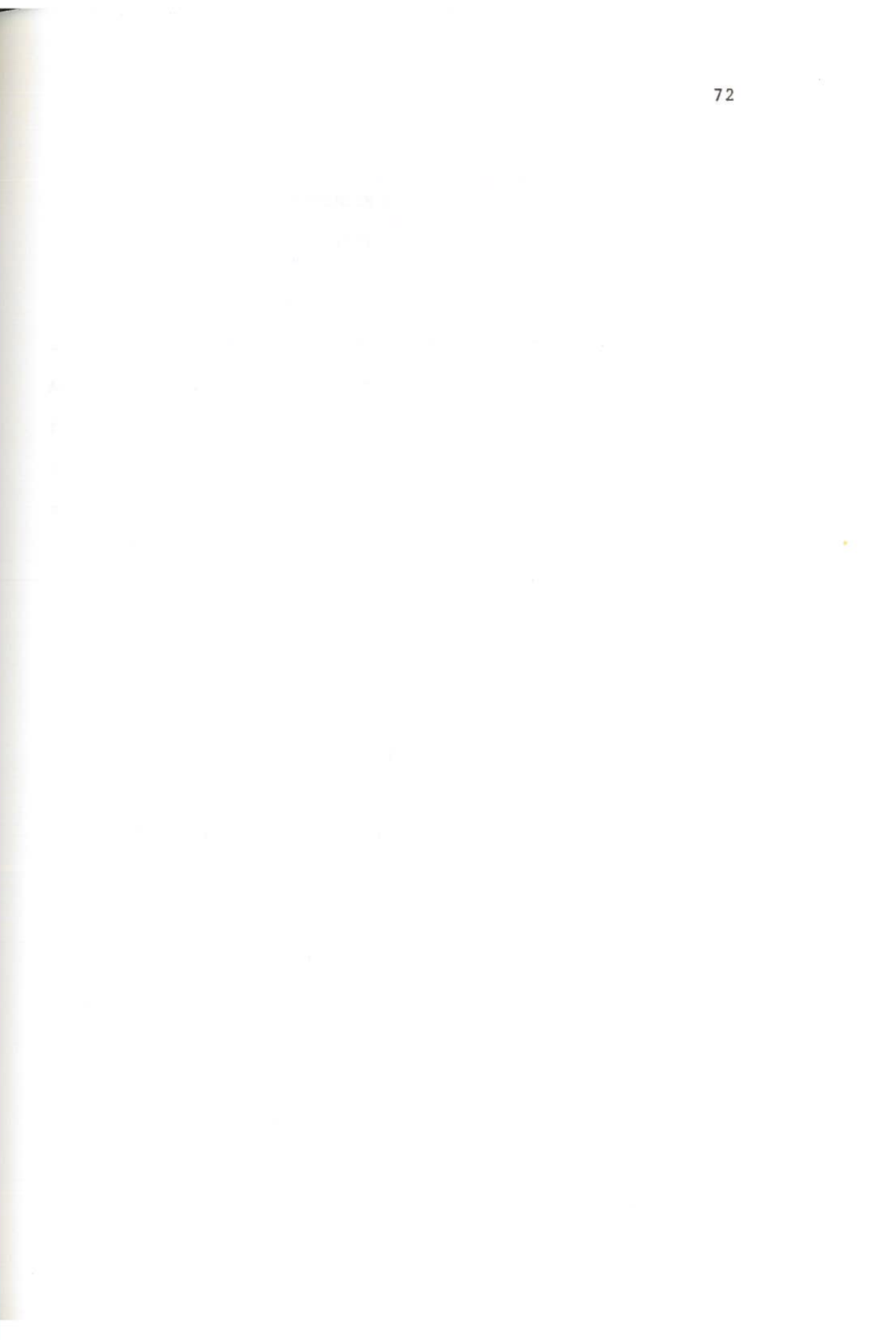
Cu-64	40	Sc-44
Cu-66	6m	Sc-46
Cu-67	7	Sc-46m
Dy-165		Sc-47
Dy-165m		Sc-48
Er-171		Sc-49
Eu-152		Se-75
Eu-152		Sm-153
Eu-154		Sm-155
Eu-155		Sn-113
F-20		Sn-123m
Fe-52		Sn-125
Fe-59		Sn-125m
		Sr-85
		Sr-85m
		Sr-87m
		Ta-182
		Tb-160
		Tc-101
		Tc-99m
		Te-123m
		Te-129
		Te-131
		Te-131m
		Th-228
		Ti-44
		Ti-51
I-125		Tl-201
I-128		Tm-170
I-129		U-239
I-130		V-52
I-131		W-187
I-132		Xe-133
In-111		Y-48
In-113m		Y-88
In-114m		Y-90m
In-116m		Yb-169
Ir-192		Yb-175
Ir-194		Zn-65
K-40		Zn-65m
K-42		Zr-95
K-43		Zr-97



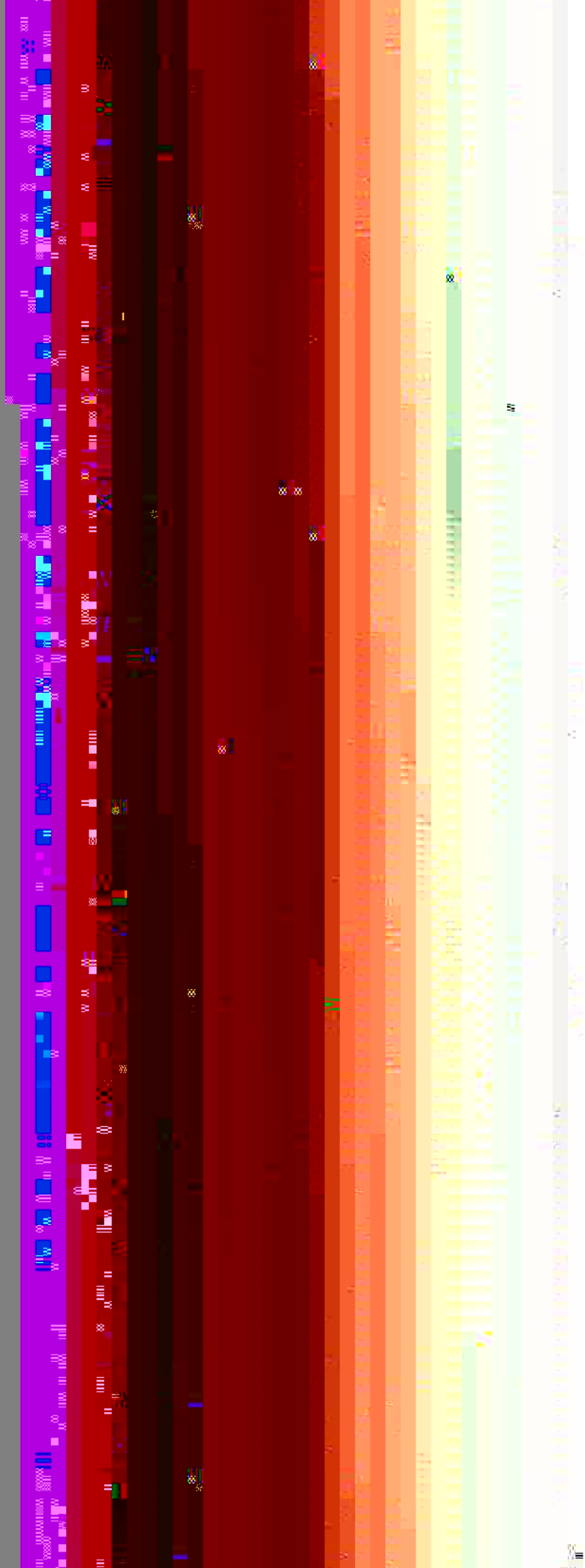


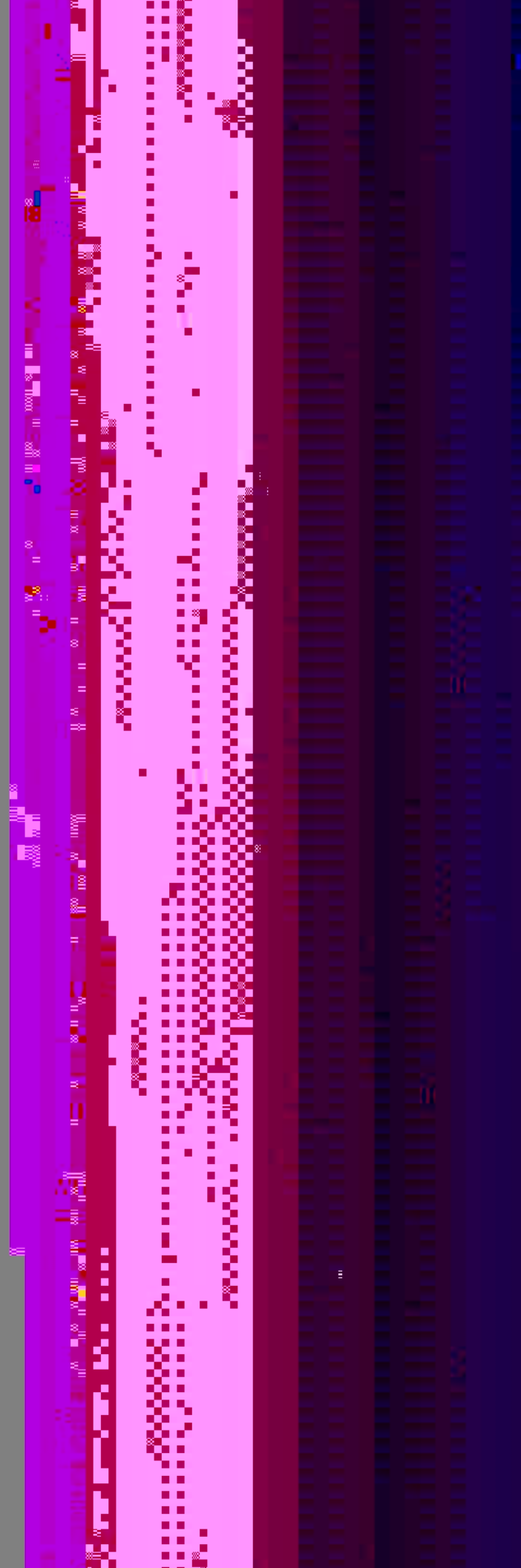














Note: When finished, do the following:

1. Press the Home/Page button three times.
2. Remove all tapes from the system.
3. Turn the 4051, the 4924, and the 4631 off.

to be run. This program is

000 ~DATA DUMP~ 000

PUT THE SPECTRUM DATA TAPE IN THE 4051 INTERNAL TAPE DRIVE

Press RETURN to continue.

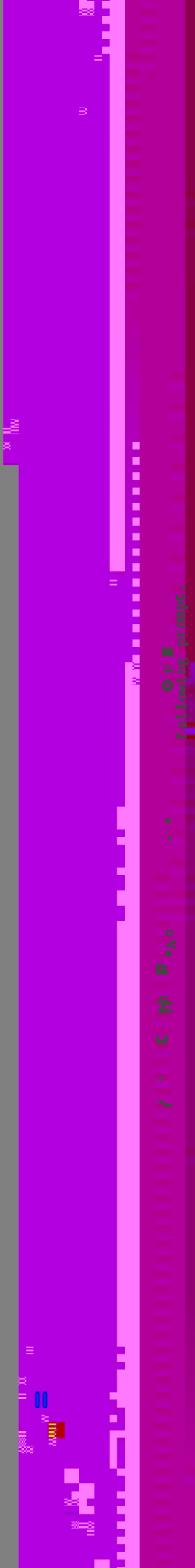
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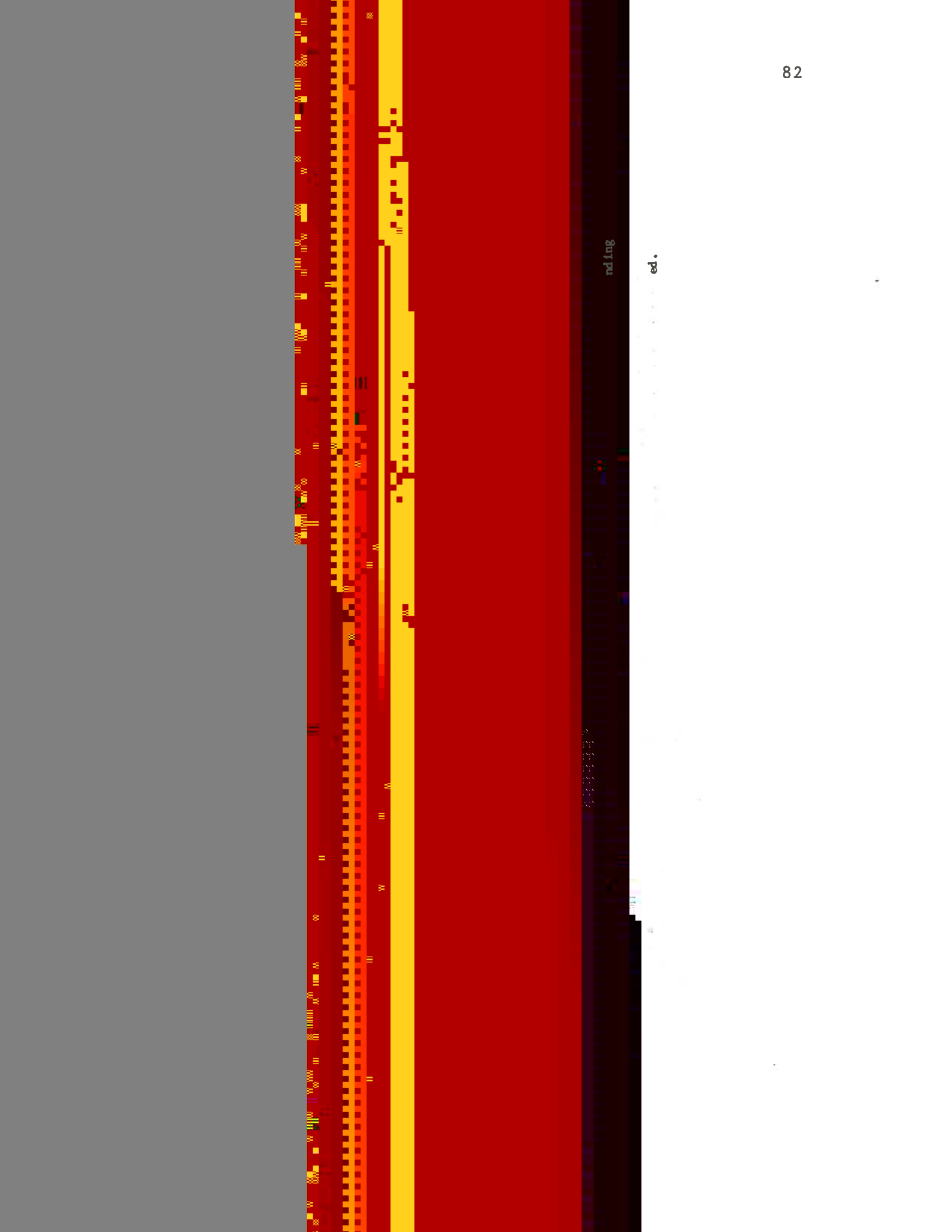
Do you want to

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following prompt.
ARE YOU SUBE ??? THIS WILL DELETE ALL OF PART
of the data now on the tape. YES Yes or No. A Yes response causes the display on the
next page. A No response causes the program to be
restarted.
.....OK.....but remember you said to !



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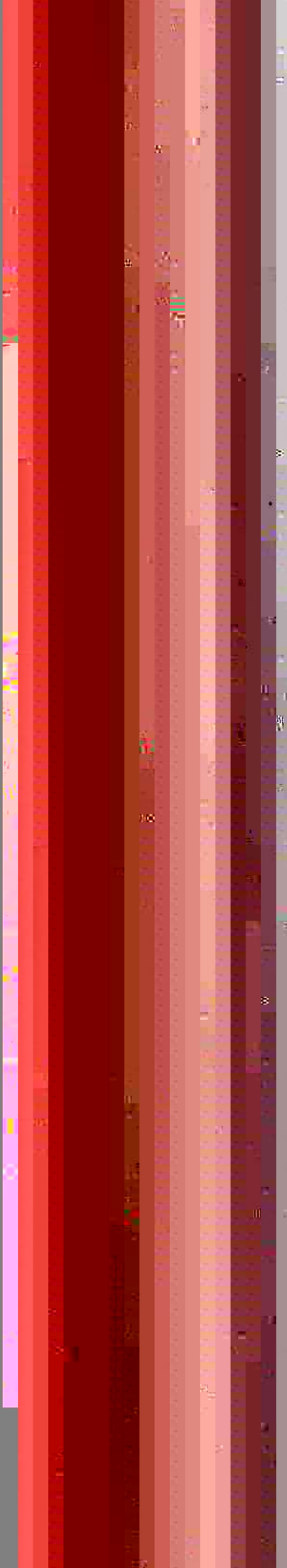
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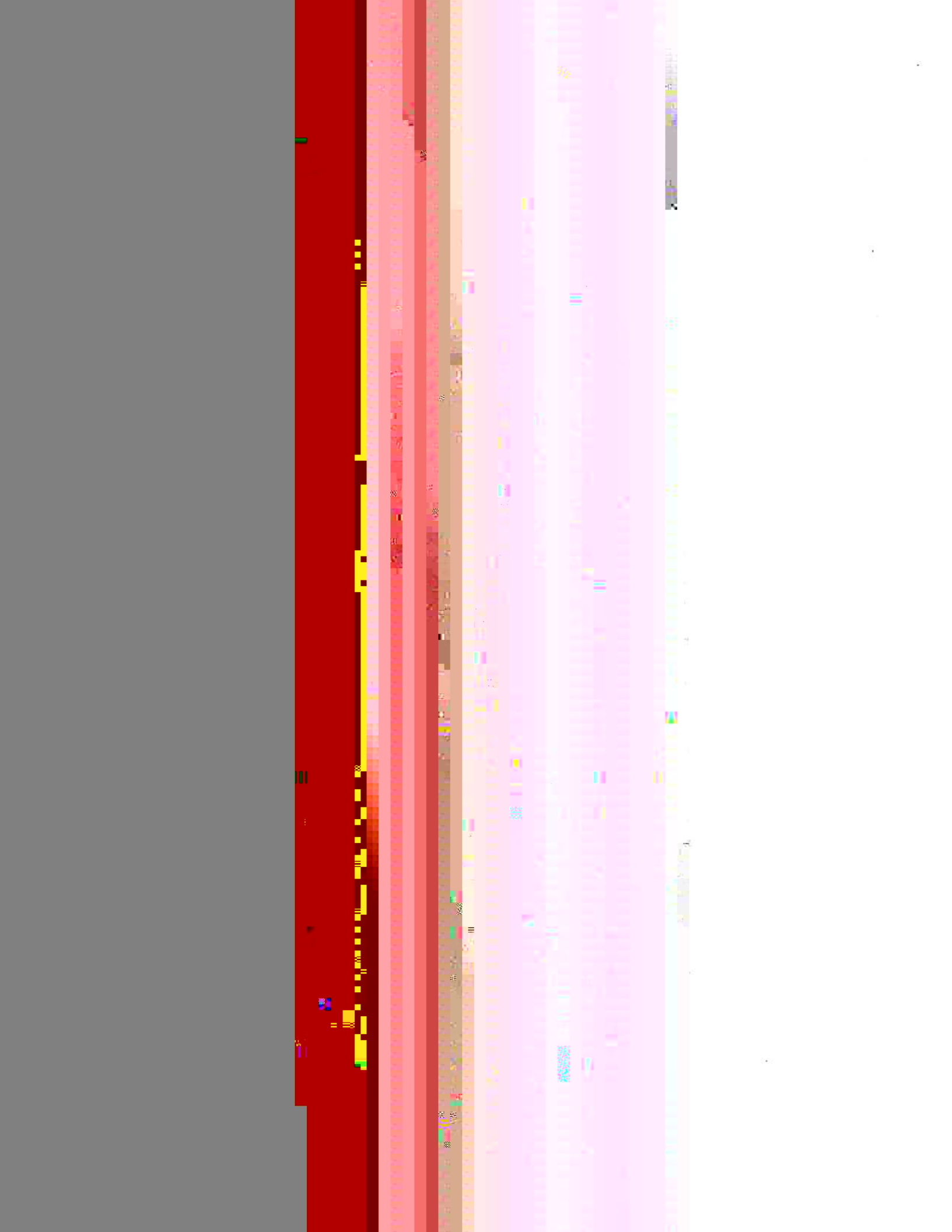


Faint, illegible text or bleed-through from the reverse side of the page, appearing as light gray marks and ghosting of characters.



The text on the page is extremely faint and illegible, appearing as a light gray or blueish tint against the white background. It seems to be a list or index of names and dates, but the individual characters and words are too small and faded to be read. There are some faint vertical lines that might separate columns of text, but they are also too light to be certain.

The user might wish to make a record of this equation for future reference.



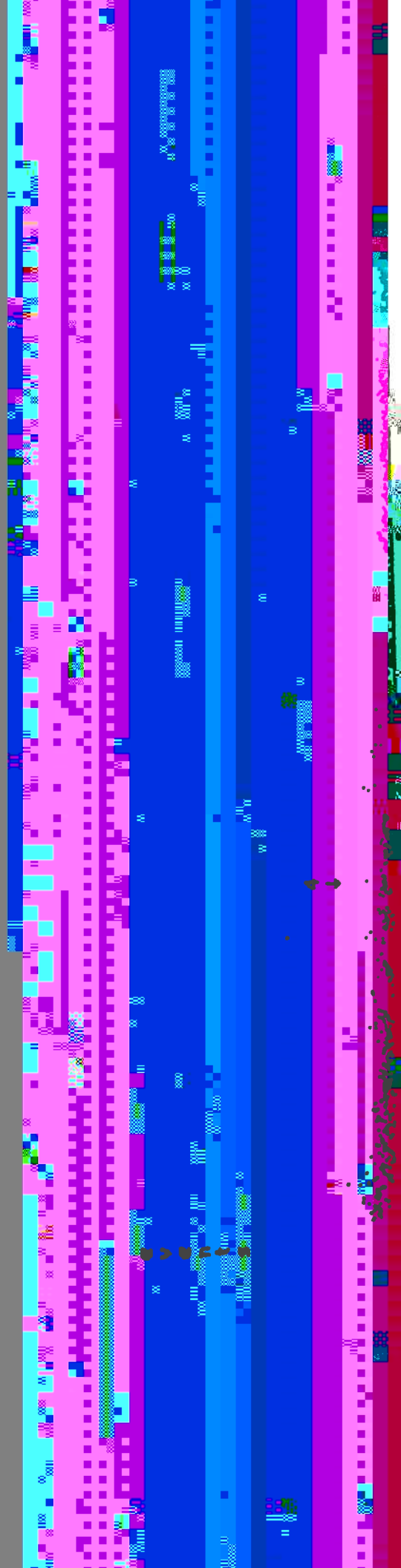
This routine is usually the fastest 'peak search' to run.

e peak-searched are

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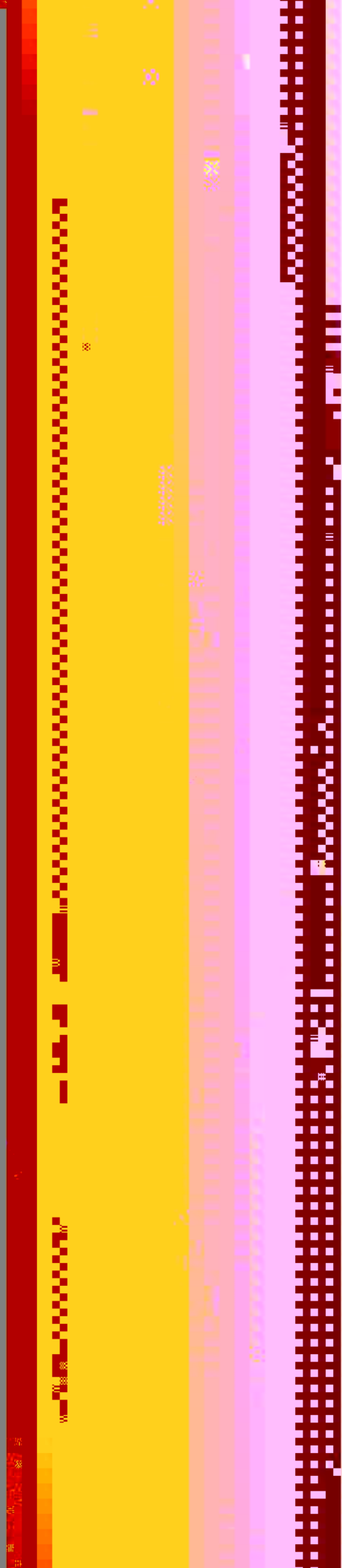


channel



Axis crossing : 1200,0
X tic interval : 80
Y tic interval : 23

channel



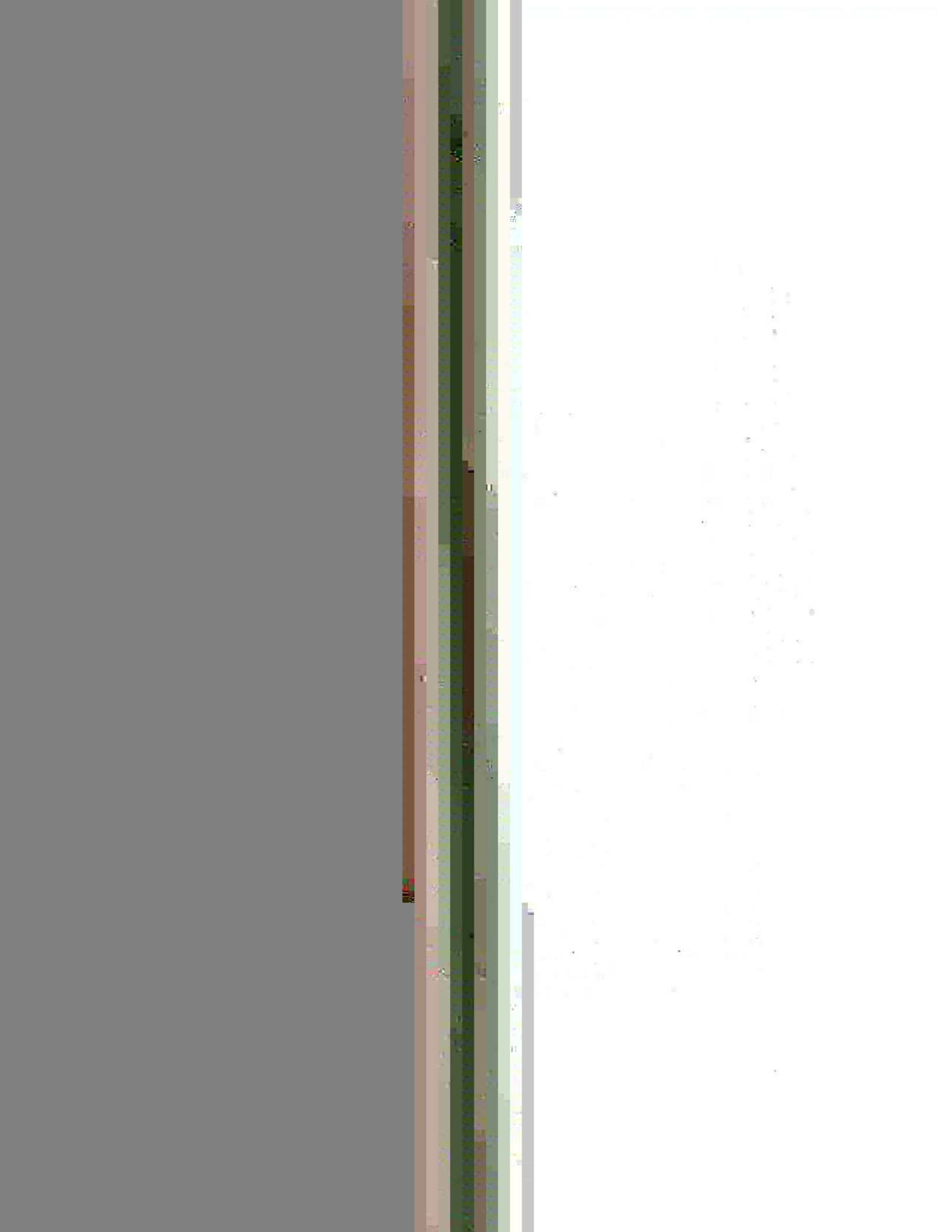
....., forget I asked.....

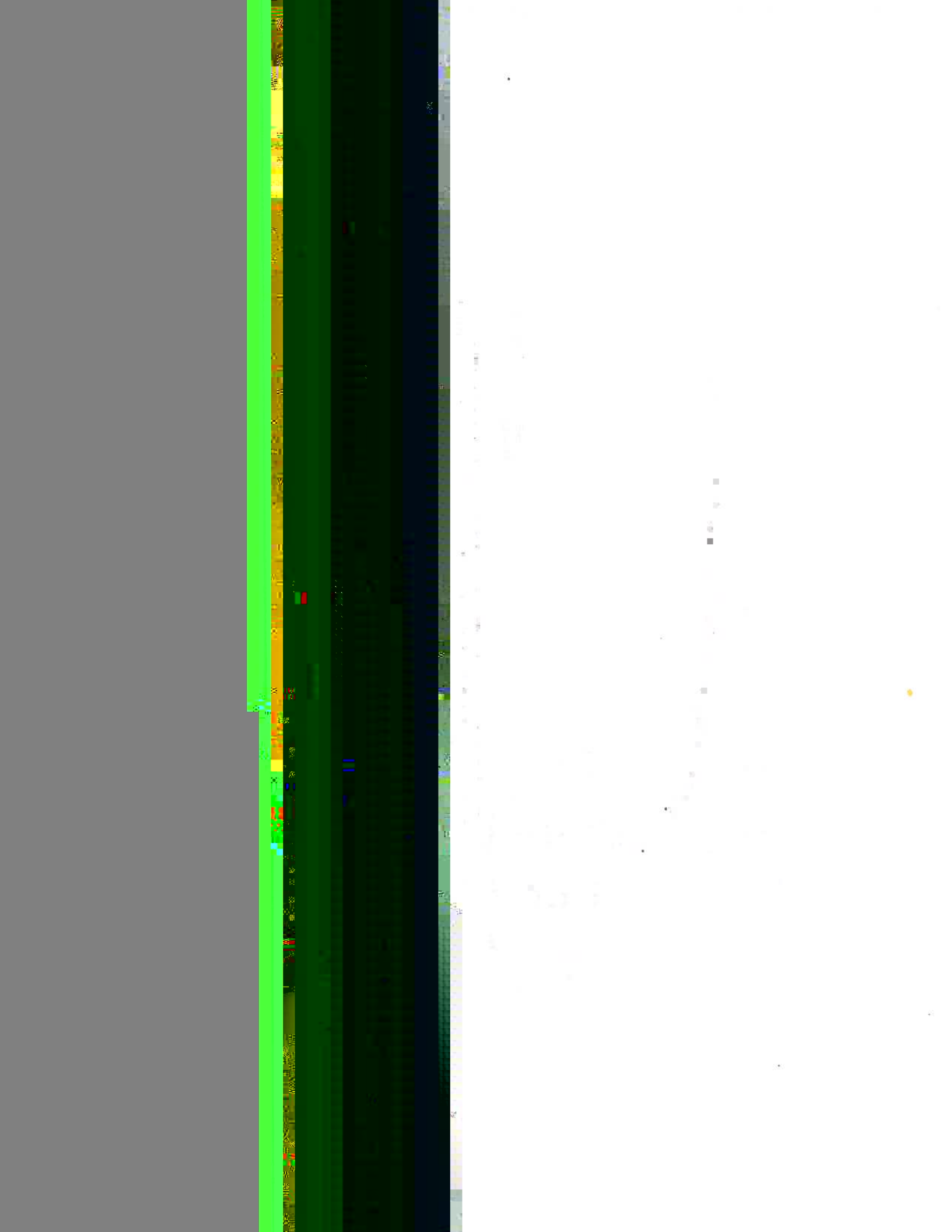
Enter spectrum file number. This must be an EVEN number : 10


Select full spectrum (FULL) or ROI (ROI) search : FULL

Here we show what occurs when the user declines the KEYBOARD ENTRY peak search option, selects to search the full spectrum rather than parts of it, and on the next page, selects a MANUAL peak search.

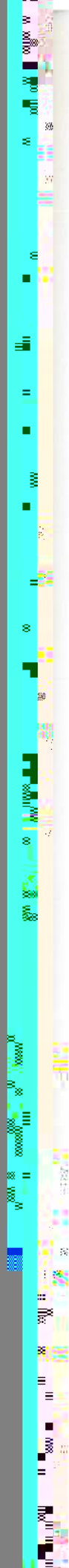
Do you want AUTO or MANUAL peak search ? MANUAL





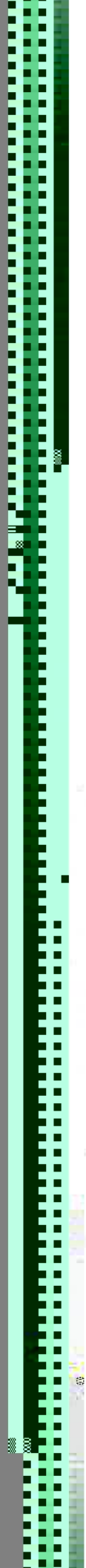


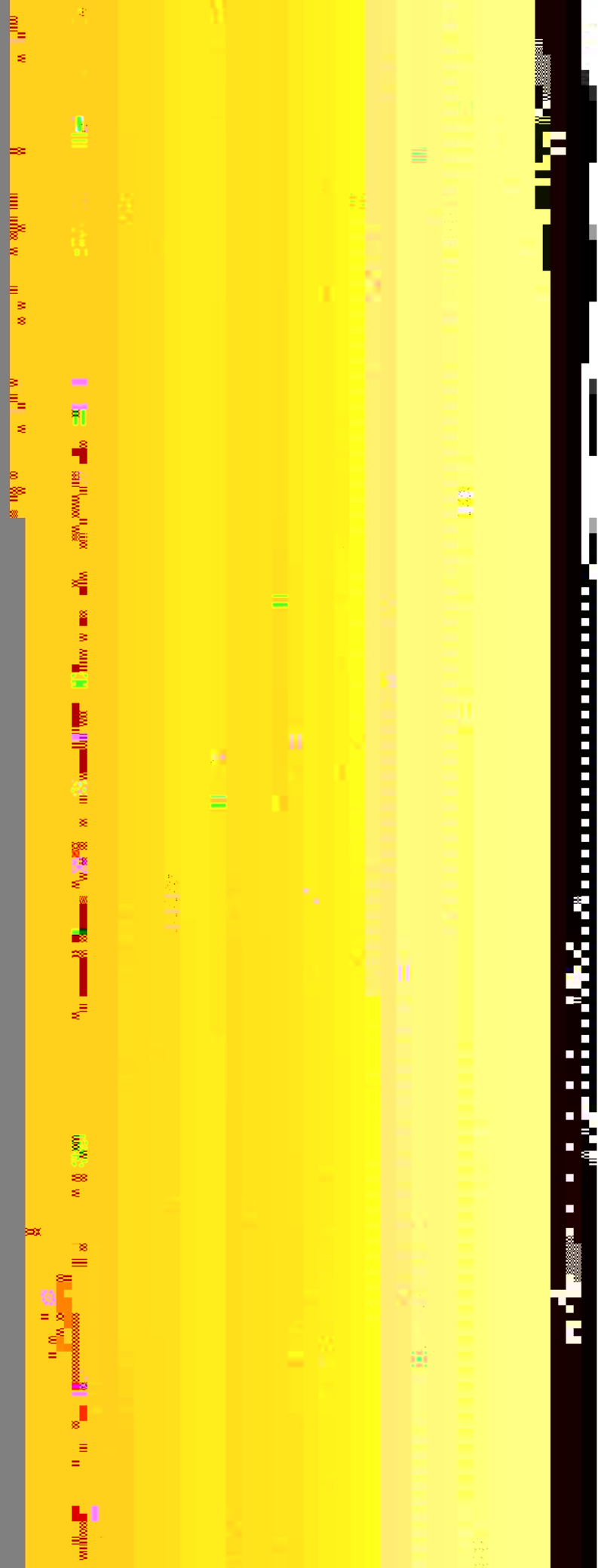
Peak Number	Channel	Energy (KeV)	Peak Counts
1	511	510.870	187
2	610	609.966	152
3	911	911.259	86
4	1119	1119.461	65
5	1459	1459.791	234
6	1760	1761.084	25



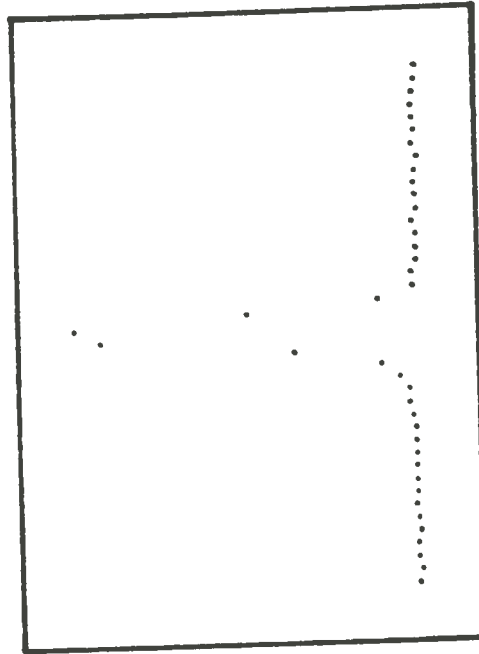
Peak Number

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- 2
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- 4
- 5

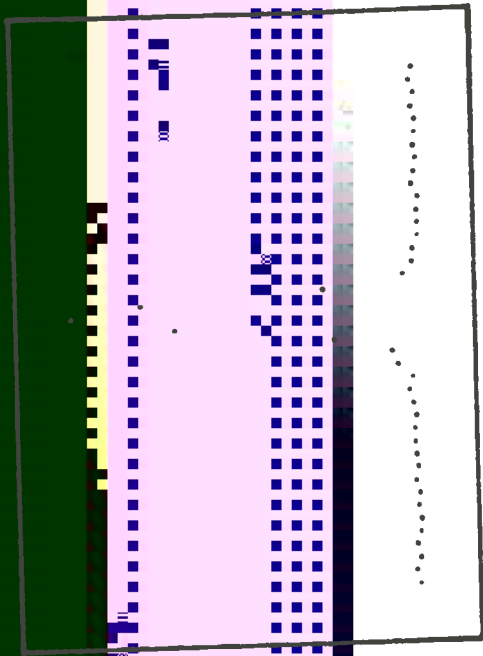




Peak number 2 in channel 1510



ped. number 3 in channel 2111

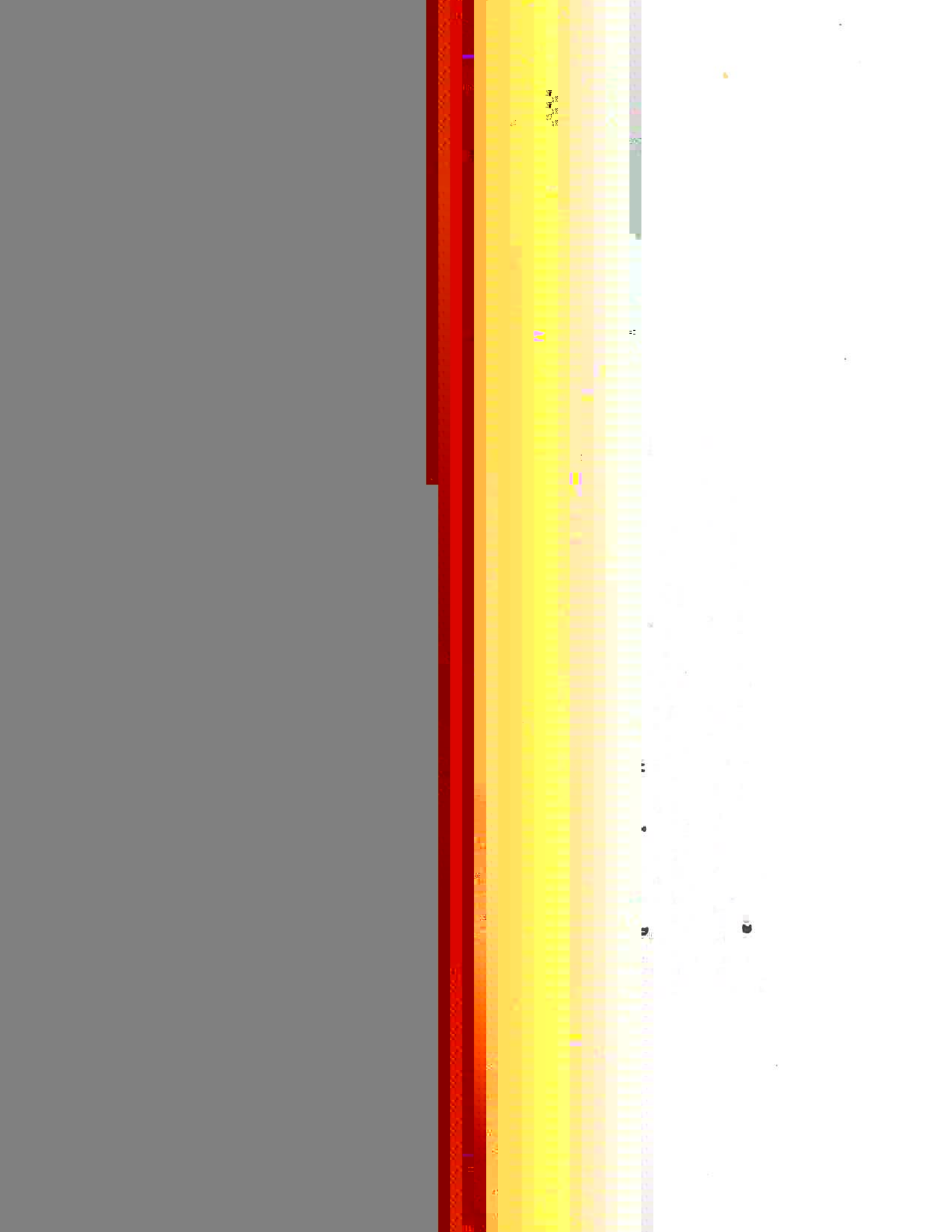


Put the PROGRAM TAPE in the 4851 internal tape drive.

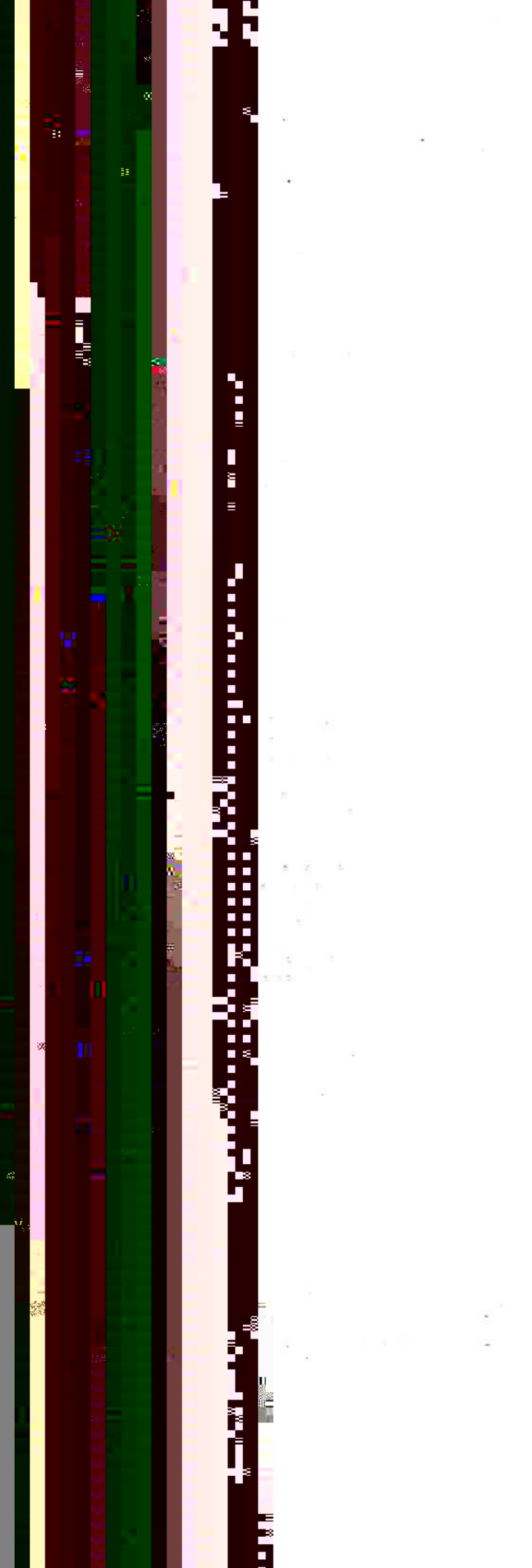
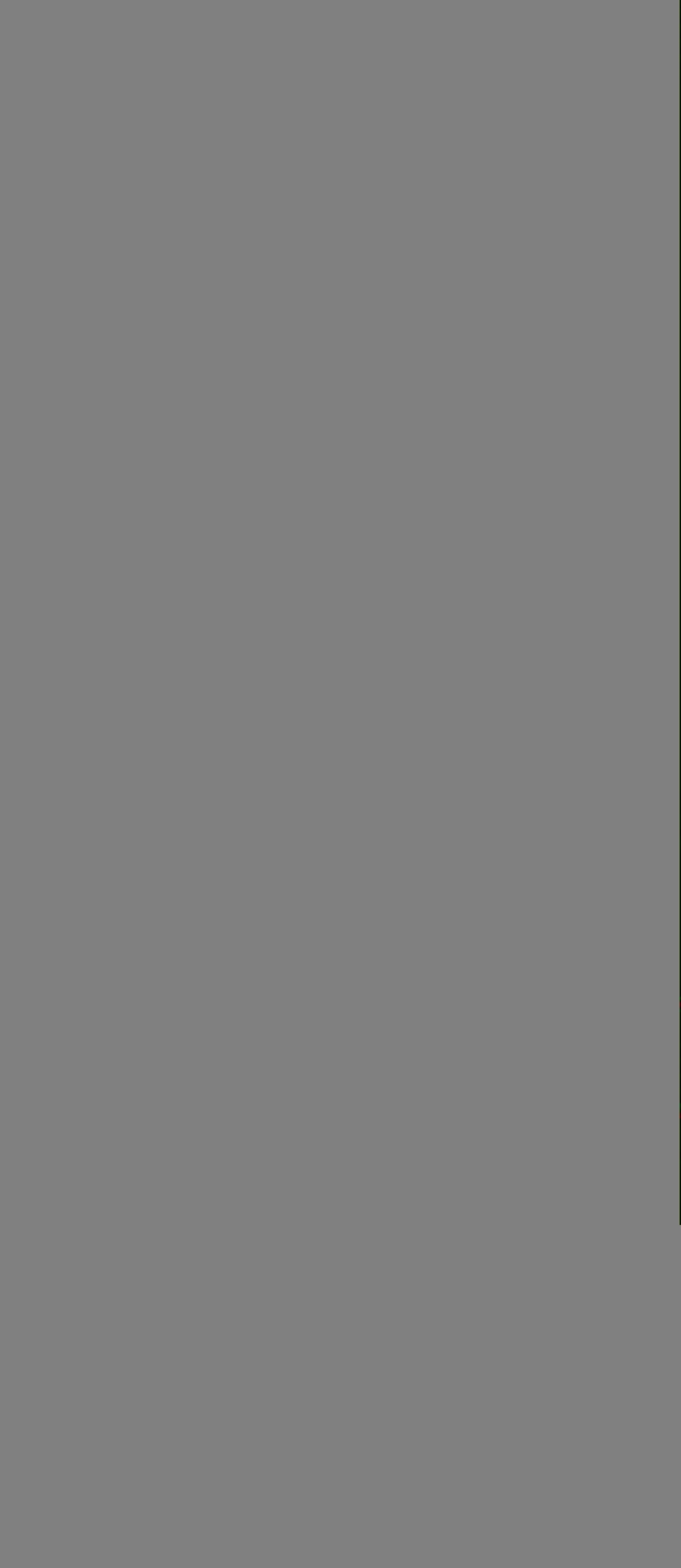
Press RETURN to continue.

The ROI select program terminates by automatically calling the program in file number 9 of the program tape.

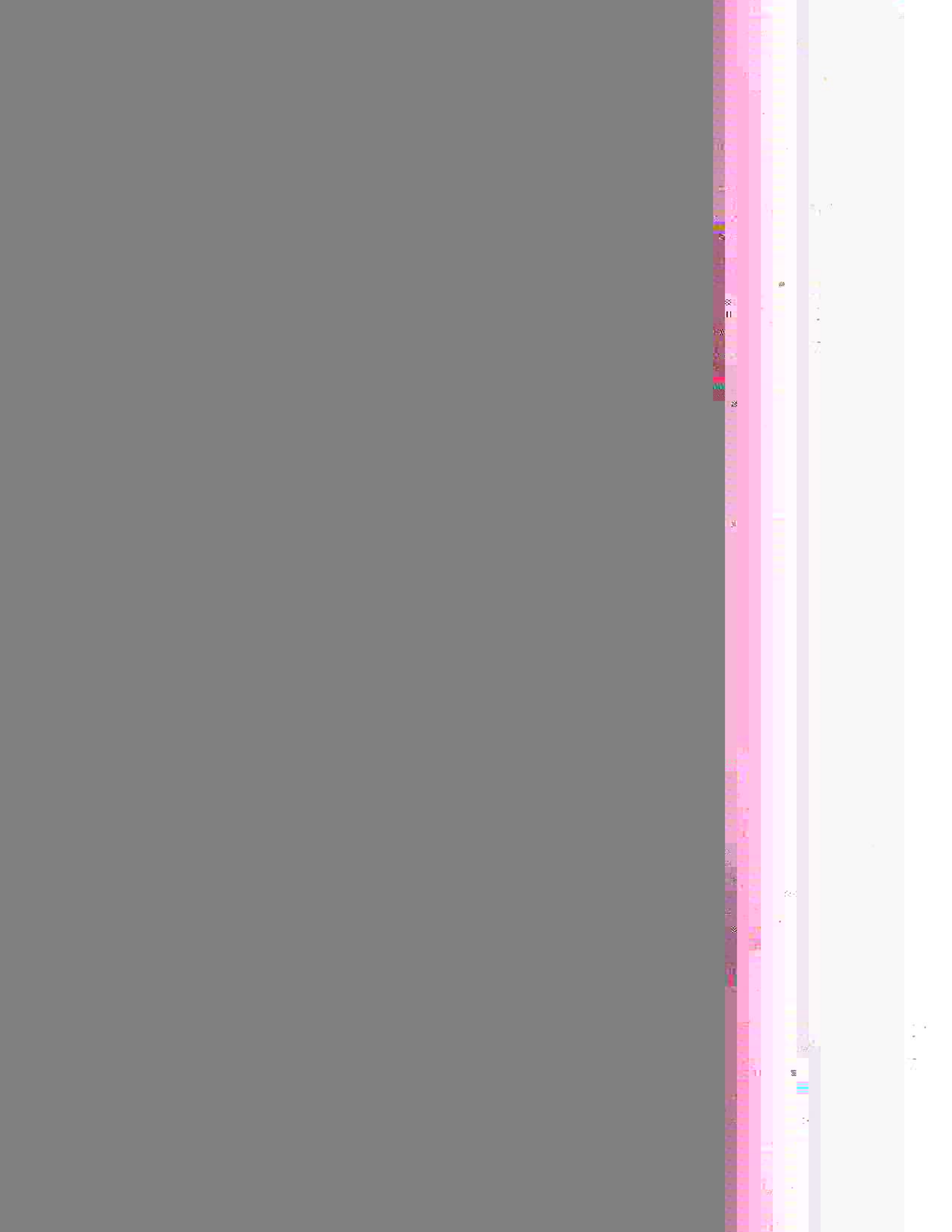
No user input data is required by this program.

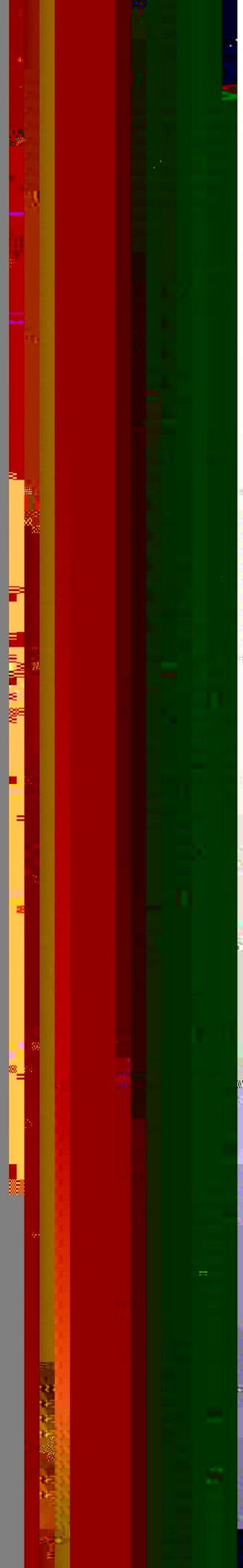


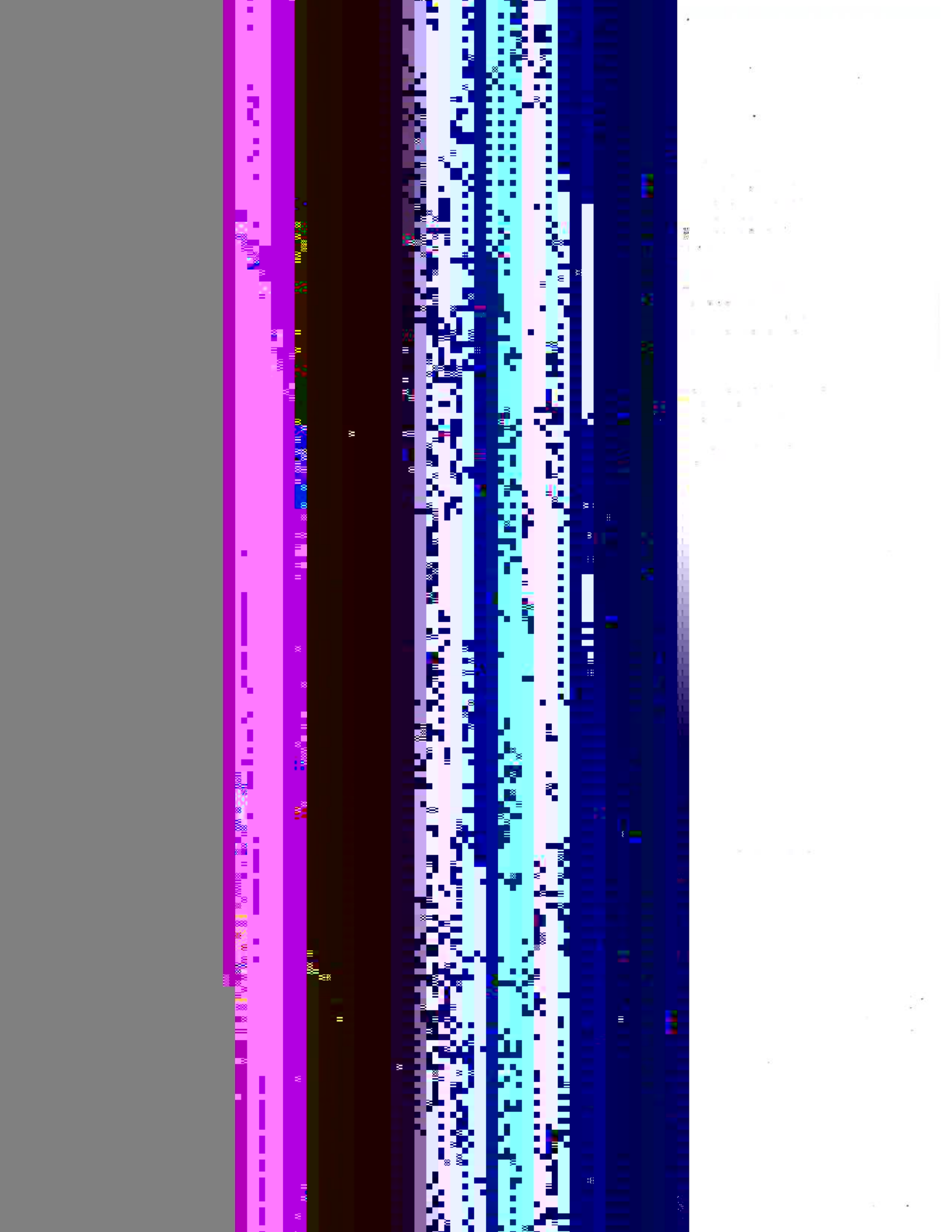
Note the message to the user indicating that the data tape scanned is full.

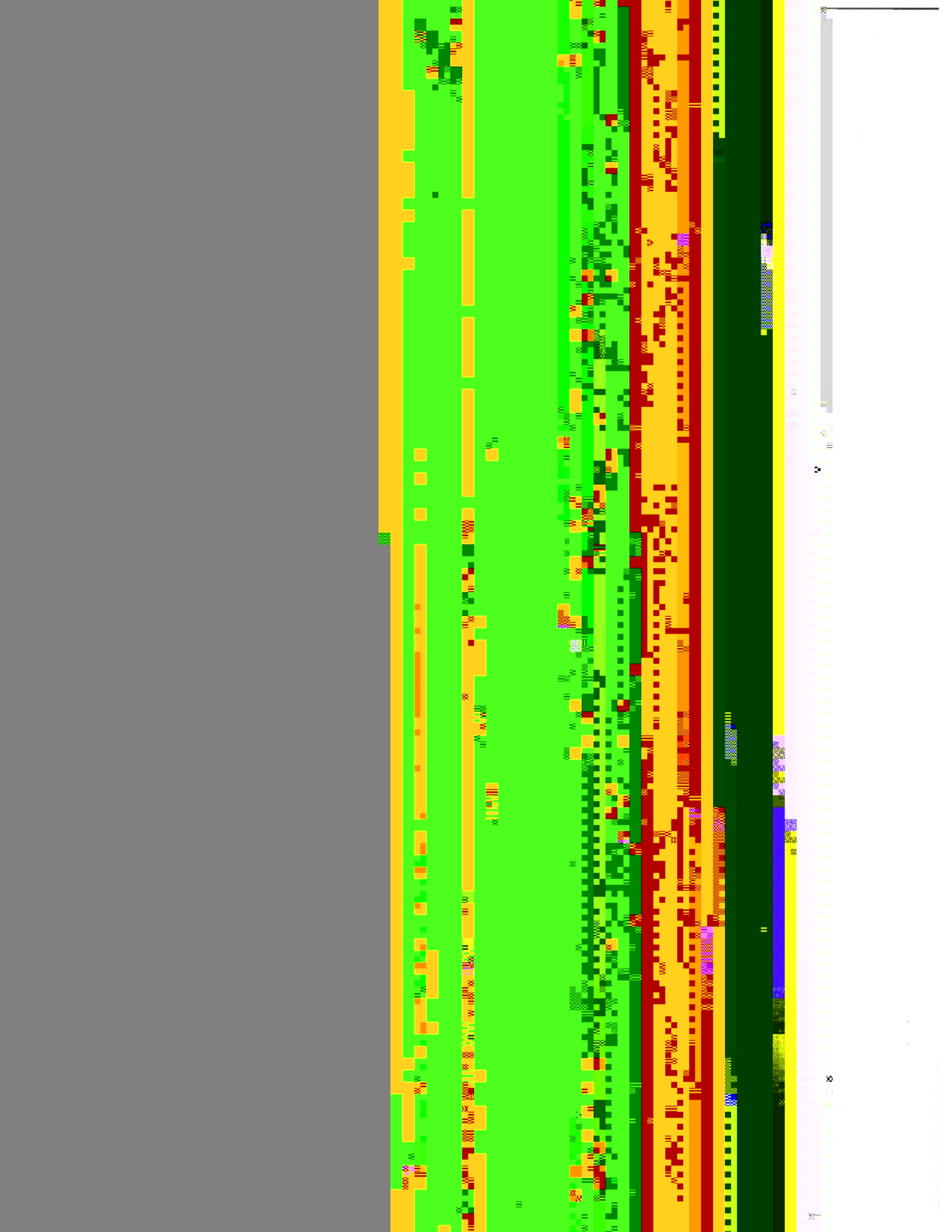


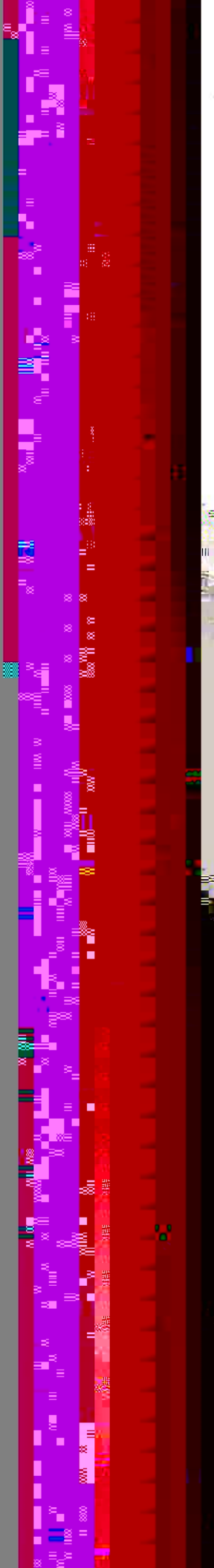












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THE GREAT WALL

BY
H. G. WELLS

CHAPTER I

It was a fine morning in the month of June, and the sun was shining brightly over the city of London. The streets were filled with people, and the air was filled with the sound of bells and the hum of traffic. In the heart of the city, a group of men were gathered around a table, looking at a map of the world. They were the members of the International Society for the Study of the Great Wall, and they were discussing the possibility of building a new wall around the world.

Fig.

1888

CHAPTER II

The first of the men was a young man with a bright, intelligent face. He was the secretary of the society, and he was very enthusiastic about the project. He was called John Smith, and he was from New York. The second man was an old man with a long white beard and a kind, gentle smile. He was the president of the society, and he was very wise and experienced. He was called Mr. Brown, and he was from London.



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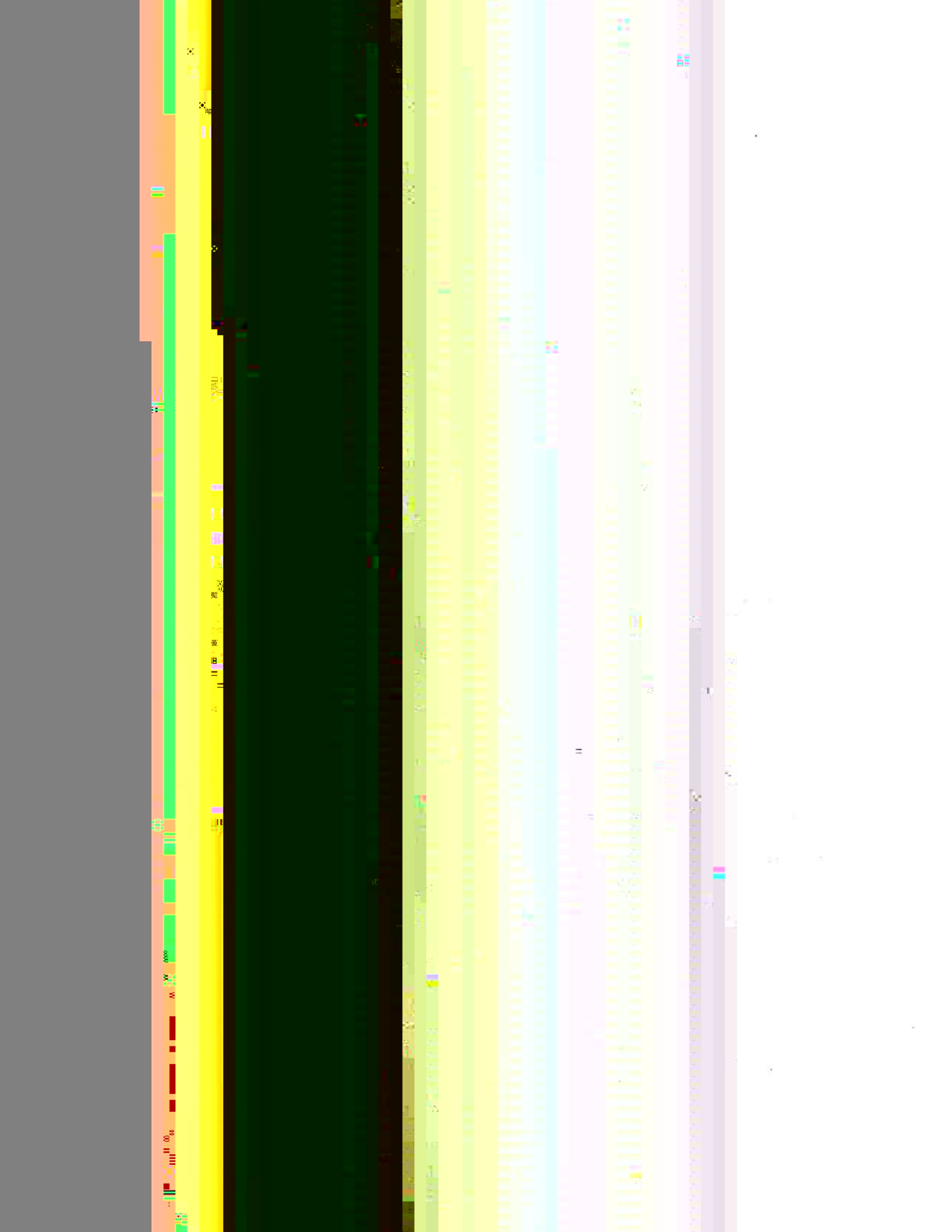
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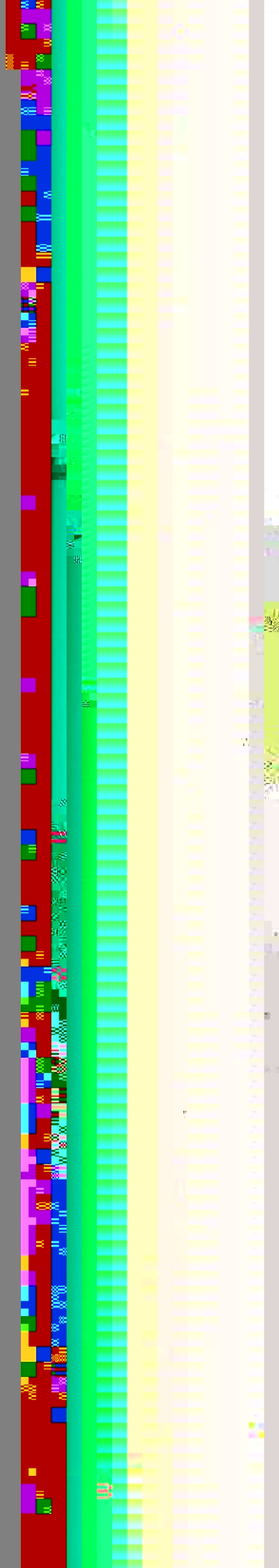
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The page contains extremely faint, illegible text that appears to be bleed-through from the reverse side of the paper. The text is scattered across the page and is too light to be read accurately. Some faint words like "the" and "and" are visible, but the overall content is completely unreadable.



Handwritten text, likely bleed-through from the reverse side of the page. The text is extremely faint and illegible.







The first part of the document
 discusses the importance of
 maintaining accurate records
 for the purpose of
 ensuring the integrity of the
 data.

The second part of the document
 describes the various methods
 used to collect and analyze
 the data. It includes a
 detailed description of the
 experimental procedures and
 the statistical analysis used
 to interpret the results.

The third part of the document
 presents the results of the
 study. It includes a series of
 tables and graphs that show
 the data collected during the
 experiment. The results
 indicate that there is a
 significant correlation between
 the variables being studied.

The final part of the document
 discusses the implications of
 the findings. It suggests that
 the results of the study may
 have important implications
 for the field of research.
 Further research is needed to
 confirm these findings and to
 explore the underlying causes
 of the observed phenomena.

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities related to the business. It emphasizes the need for transparency and accountability in financial reporting.

2. The second part of the document outlines the various methods and tools used to collect and analyze data. It highlights the importance of using reliable sources and ensuring the accuracy of the information gathered.

3. The third part of the document focuses on the interpretation and analysis of the collected data. It discusses the various statistical techniques and models used to identify trends and patterns in the data.

4. The fourth part of the document discusses the importance of communication and reporting. It emphasizes the need for clear and concise communication of the findings and conclusions to the relevant stakeholders.

5. The fifth part of the document discusses the importance of ethical considerations in data collection and analysis. It highlights the need for transparency, honesty, and respect for the privacy and rights of individuals.

6. The sixth part of the document discusses the importance of ongoing monitoring and evaluation. It emphasizes the need for regular updates and revisions to the data and analysis to ensure its relevance and accuracy.

7. The seventh part of the document discusses the importance of collaboration and teamwork. It highlights the need for effective communication and coordination among team members to ensure the successful completion of the project.

8. The eighth part of the document discusses the importance of documentation and record-keeping. It emphasizes the need for maintaining accurate and up-to-date records of all data and analysis to ensure transparency and accountability.

9. The ninth part of the document discusses the importance of staying up-to-date with the latest research and developments in the field. It emphasizes the need for continuous learning and professional development to ensure the highest quality of work.

10. The tenth part of the document discusses the importance of maintaining a professional and ethical standard of conduct. It emphasizes the need for honesty, integrity, and respect for the rights and interests of others.

11. The eleventh part of the document discusses the importance of maintaining a positive and collaborative work environment. It emphasizes the need for effective communication, teamwork, and mutual respect among team members.

12. The twelfth part of the document discusses the importance of maintaining a high level of accuracy and attention to detail. It emphasizes the need for thoroughness and precision in all aspects of the work.

13. The thirteenth part of the document discusses the importance of maintaining a clear and concise communication style. It emphasizes the need for effective writing and speaking skills to ensure that the findings and conclusions are easily understood by the relevant stakeholders.

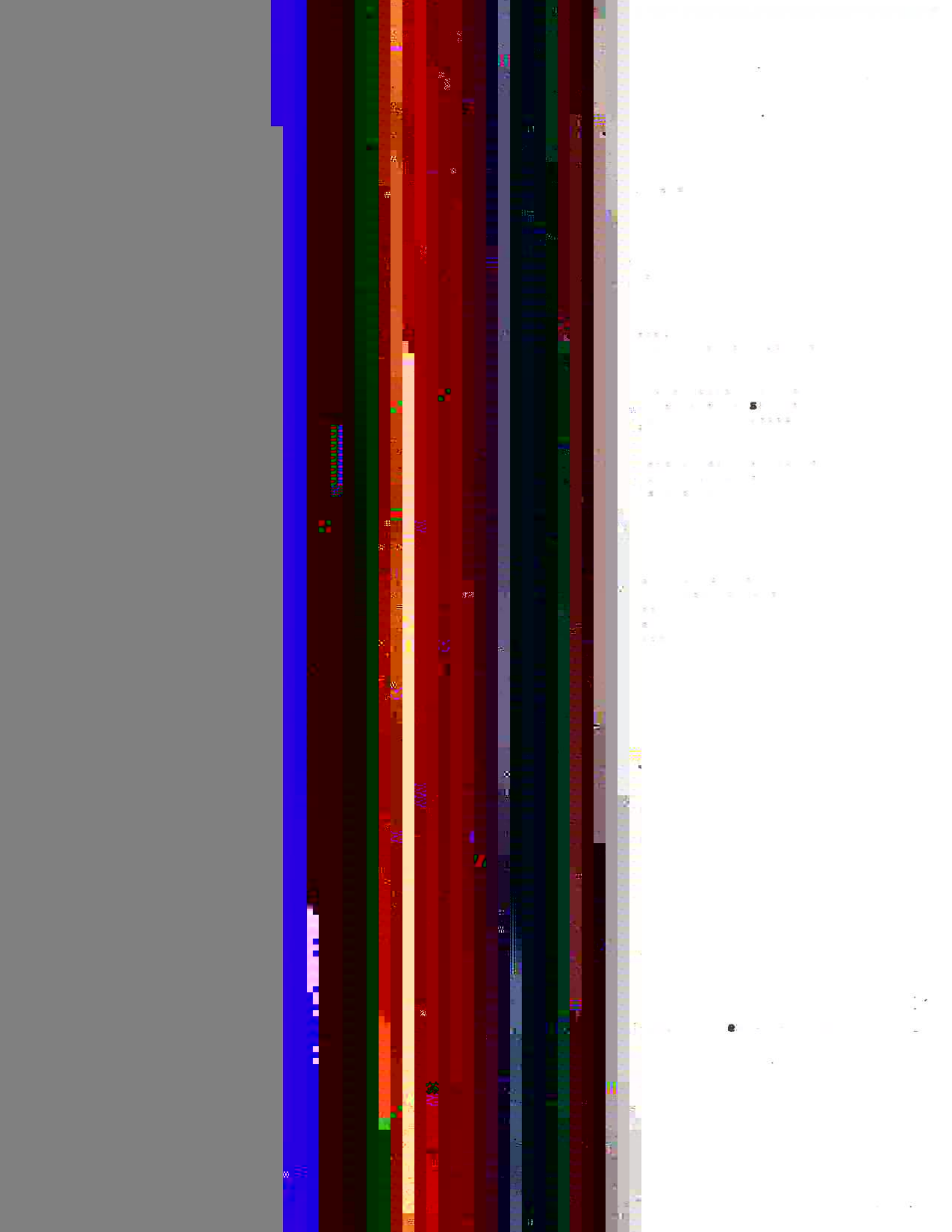
14. The fourteenth part of the document discusses the importance of maintaining a high level of professionalism and integrity. It emphasizes the need for honesty, transparency, and respect for the rights and interests of others.

15. The fifteenth part of the document discusses the importance of maintaining a positive and collaborative work environment. It emphasizes the need for effective communication, teamwork, and mutual respect among team members.

16. The sixteenth part of the document discusses the importance of maintaining a high level of accuracy and attention to detail. It emphasizes the need for thoroughness and precision in all aspects of the work.

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18. The eighteenth part of the document discusses the importance of maintaining a high level of professionalism and integrity. It emphasizes the need for honesty, transparency, and respect for the rights and interests of others.







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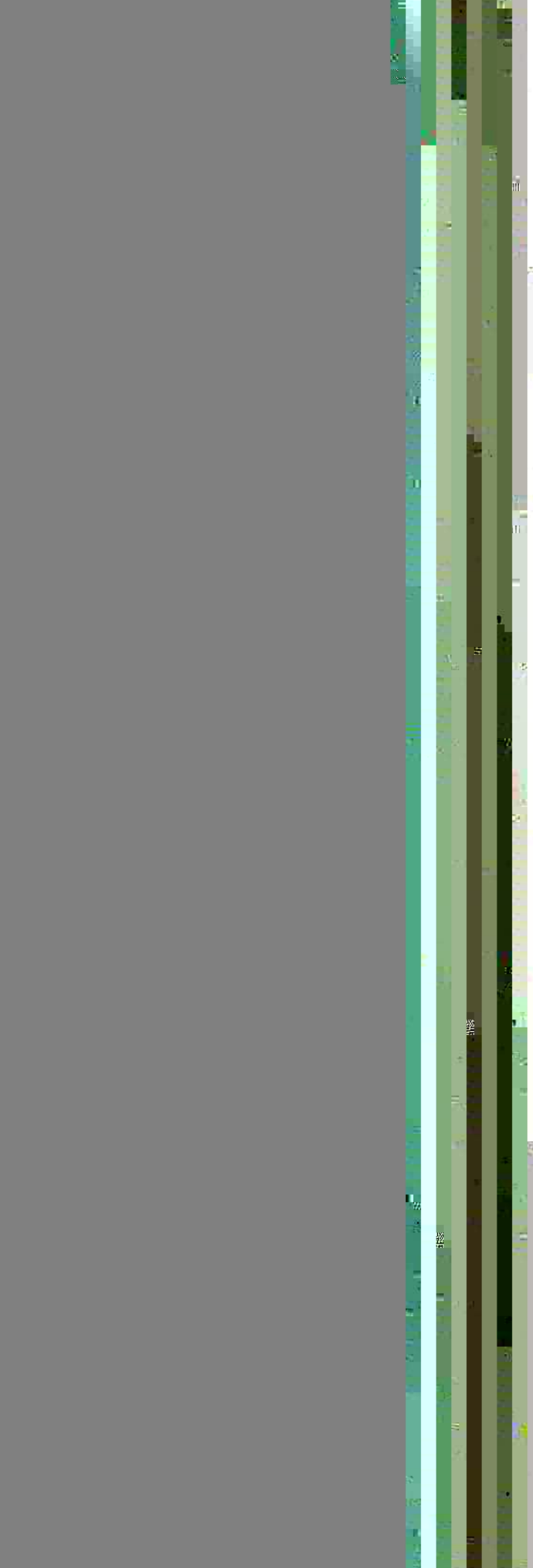
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1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that this is crucial for ensuring transparency and accountability in the organization's operations.

2. The second part outlines the specific procedures and protocols that must be followed when recording and reporting data. This includes details on how to collect, store, and analyze information to ensure its reliability and validity.

3. The third part addresses the role of technology in modern record-keeping. It highlights the benefits of using digital tools and software to streamline the process and reduce the risk of human error.

4. Finally, the document concludes by stressing the need for ongoing training and education for all staff members involved in the record-keeping process. This ensures that everyone is up-to-date on the latest best practices and standards.



