



Welcome to Tau Beta Pi!

Dear fellow peer,

Congratulations on your outstanding academic achievements! Your drive to succeed in scholarship has made you one of the top performers of your class, and has earned you an invite to Tau Beta Pi, the Engineering Honor Society!

Tau Beta Pi (TBP) is the oldest engineering honor society in the United States that recognizes engineering students who have demonstrated distinguished scholarship and exemplary character. It is the second oldest collegiate honor society in the country, and the only one that represents the entire engineering profession. Founded in 1885 at Lehigh University by Professor Edward H. Williams Jr, TBP has grown leaps and bounds to 257 active collegiate chapters across the United States, Puerto Rico, and even Qatar. In total, over 600,000 engineers have been initiated to Tau Beta Pi as lifelong members. We are also unique as an honors society in that we encompass all majors within engineering.

The Michigan Gamma (MI-G) chapter of TBP was founded at the University of Michigan, Ann Arbor in 1906, and has since grown to be the second largest TBP chapter by number of students initiated. MI-G brings together the great minds of the diverse engineering fields in the College of Engineering, and has initiated over 10,000 members to-date, including notable personalities like American astronaut Edward H. White II and Google co-founder Larry Page. MI-G is also one of the most active TBP chapters, organizing dozens of service, social, and professional development events each semester.

Most importantly, however, is that we are a community. By participating in Tau Beta Pi, you will have the opportunity to meet fantastic students from across the field of engineering who, like yourselves, are driven towards achieving academic excellence and enthusiastic to engage with the community. I joined in Fall 2024, and have gotten to meet so many great individuals, many of whom are now some of my closest friends.

In this first general meeting, you will learn of the various benefits that come from being a member of TBP, including opportunities for social events, community service, networking, professional development, scholarship, and leadership. You will also learn of the requirements in order to gain membership into TBP—and though they may seem daunting at first, you can be assured that we are here to help you achieve these goals.

As your Vice President for this semester, I am responsible for assisting you through your “electing” process, that is, your track to becoming a lifelong member of Tau Beta Pi. This packet contains information on our membership requirements, as well as your Electee Exam. We ask that you collaborate amongst yourselves throughout the semester to complete the exam—don’t stress too much about it! If you have any questions, please do not hesitate to ask!

I hope to get to know all of you personally, and we hope you will choose to join us in Tau Beta Pi.

Aidan Shores
Vice President
Tau Beta Pi, MI-G
tbp.vicepresident@umich.edu



Undergraduate Electee Packet

Winter 2026

Tau Beta Pi MI-G

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If you are missing something, stop by the office, also known as the Bullpen (1226 EECS) or go to the Electee Resources page on the website (tbp.engin.umich.edu). Also, feel free to contact the Vice President (tbp.vicepresident@umich.edu). **Sign up for interviews** and **create a website profile** at tbp.engin.umich.edu.

Officer Chats - Winter 2026

Please come visit us during our Officer Chats located in the Bullpen (1226 EECS). We can answer any questions and help you with your electee exam! You can see any updates to the Officer Chats schedule at tbpmig.org/oh. The current schedule for Officer Chats is as follows:

Executive Team	Monday	11:30 am - 1:30 pm
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Events Team	Monday	4:00 pm - 5:00 pm
	Thursday	1:00 pm - 2:00 pm

Chapter Team	Monday	5:00 pm - 7:00 pm
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Tau Beta Pi
The Engineering Honor Society

Information Sheet - Winter 2026

Tau Beta Pi MI-G

Important Dates

January			
27	First General	6:30 pm	1013 DOW
February			
10	Second General	6:30 pm	1013 DOW
11-13	Interviews	All Day*	Duderstadt
17	New Initiatives II	6:30 pm	1610 IOE
March			
10	Third General	6:30 pm	1610 IOE
17	New Initiatives III	6:30 pm	1610 IOE
31	Fourth General	6:30 pm	1610 IOE
April			
7	Elections	6:00 pm	1610 IOE
14	Fifth General**	6:30 pm	1610 IOE
18	Initiation	3:30 pm	1500 EECS
18	Banquet	6:00 pm	TBD

* Interviews will take place in Duderstadt 1120A and 1120D from 9am-9pm. You can schedule a 30 minute interview slot on the website.

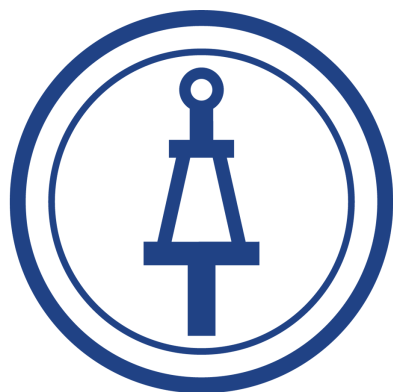
** Deadline to complete all electee requirements

General Information

TBP Office (Bullpen)
1226 EECS

Officers Email
tbp.officers@umich.edu

Website
tbp.engin.umich.edu or tbpmig.org



Tau Beta Pi
The Engineering Honor Society

Officers (@umich.edu)

Executive Committee

President	Katherine Shih (tbp.president)
Vice President	Aidan Shores (tbp.vicepresident)
Graduate Student Vice President	Lexie Barnard-Davignon (tbp.gradvicepresident)
Secretary	Moon Hazarika (tbp.secretary)
Treasurer	Cate Costew (tbp.treasurer)
External Vice President	Michael (Cap) Capitani (tbp.externalvicepresident)
External Vice President	Anushka Acharya (tbp.externalvicepresident)

Events Team

Service Coordinator	Vasiliki (Valia) Tsirikis (tbp.service)
Campus Outreach Officer	Yagho Franco Grossi Mota (tbp.campusoutreach)
Activities Officer	Jacob Bell (tbp.activities)
Professional Development Officer	Kaushal Kumar (tbp-corporate)
K-12 Outreach Officer	Natalie Garvey (tbp.k12outreach)
K-12 Outreach Officer	Ava Martin (tbp.k12outreach)

Chapter Team

Chapter Development Officer	Nicholas Frieler (tbp.chapterdevelopment)
Membership Officer	Catherine Liang (tbp.membership)
Publicity Officer	Chaison Stuart (tbp.publicity)
Historian	Peak Shinawatra (tbp.historian)

Advisors

Leland Pierce	EECS	lep	Faculty Advisor
Kyle Lady	EECS	kylelady	Chief Advisor
Michael Benson	EECS	mlbenson	Alumnus Advisor
Kate Giammalvo	CEE	kgiamm	Alumnus Advisor
Hunter Muench	EECS	hmuench	Alumnus Advisor
Drew Boughton	ME	drbought	Alumnus Advisor
Alyssa Fodale	ChemE	afodale	Undergrad Student Advisor



Undergraduate Electee Requirements

Winter 2026

Tau Beta Pi MI-G

The following is a list of the requirements to join Tau Beta Pi MI-G

I. REQUIRED IN-PERSON MEETINGS

If you cannot attend a meeting, first email the Vice President at tbp.vicepresident@umich.edu. Be sure to look over a copy of the meeting's agenda at For Members → Access History → Meeting Minutes on the website. You must then make up the meeting with one extra hour of service or one extra social event, approved by the Vice President. Elections can only be made up with a service hour. All meetings (except Initiation/Banquet) will begin at 6:30pm. See Information Page for locations.

- i. First General - January 27th
- ii. Second General - February 10th
- iii. Third General - March 10th
- iv. Fourth General - March 31st
- v. Elections (for Voting Meeting Attendance) - April 7th
- vi. Fifth General - April 14th
- vii. Initiation & Banquet - April 18th

II. 16 SERVICE HOURS

We recommend you complete at least 4 hours by Second Actives (February 24th) and you are required to complete 8 hours by Third Actives (March 24th). You may do a maximum of 5 independent hours of service (hours not associated with Tau Beta Pi) provided you show adequate proof of your involvement, and that the hours do not count for another society (please contact the Service Coordinator for more information).

A portion of your 16 hours will come from the following mandatory events:

i. Participate in at least 4 hours of K-12 Outreach service events.

Each electee must participate in at least one approved K-12 Outreach event for a minimum of 4 hours. Any hours over this requirement will count towards your remaining service hours. The following events can count to fill this requirement:

- i. **MindSETs:** February 21st, March 14th, March 11th
- ii. **Cub Scouts Day:** March 15th
- iii. **Merit Badge Days:** February 15th, March 22nd
- iv. **Engineering Day:** March 21st

***In order to volunteer at any of the K-12 events that involve minors, you must complete various forms at tbpmig.org/k12-paperwork. We recommend you have this done by **February 10th (Second General)**. Please contact the K-12 Outreach Officers (tbp.k12outreach@umich.edu) if you have any questions.

ii. Volunteer for 1 hour of TBP tutoring.

Our tutoring service pairs students interested in receiving tutoring (mainly for intro-level classes) with qualified TBP tutors. TBP tutors will meet with the student throughout the semester and receive service hour credit for the hours they have spent tutoring as verified by the student. Tutoring sign-ups are due before New Initiatives II (February 17th), but you do not have to complete them by this date! We also provide group tutoring in collaboration with other organizations where students can come and go freely, which also counts as tutoring hours. Please contact the Campus Outreach Officer (tbp.campusoutreach@umich.edu) for more information.

III. 2 SOCIAL EVENTS

Social events include game nights, movie nights, intersociety events, restaurant visits, etc. One of these activities should be completed by Third Actives (March 24th). If you would like to plan your own social event, you can reach out to the Activities Officer (tbp.activities@umich.edu)

IV. 2 PROFESSIONAL DEVELOPMENT EVENTS

Professional development events include things such as corporate information sessions, resume reviews, professional headshots, or mock interviews.

V. ELECTEE TEAM MEETINGS

You must attend all 3 of your electee team meetings, which you will schedule throughout the semester. Contact your electee team lead(s) or the Vice President if you are unable to make one of your team meetings.

VI. CHARACTER EVALUATION

You must complete an Electee Interview Questionnaire regarding exemplary character and submit your answers, along with a copy of your resume, to the website by **Monday, February 9th**. The interview questionnaire can be found under Electee Resources on the website (tbp.engin.umich.edu). Your resume should be submitted to your website profile. Interviews last about 25 minutes and starts no later than 5 minutes after start time, which will require a total commitment of 30 minutes. Interviews will take place in person in the Duderstadt 1120A and 1120D on February 11th-13th and dress code is business casual. **Sign up for your interview on the website.**

VII. MENTORSHIP PROGRAM -"TBPALS"

You must participate in a TBPals group event. TBPals is designed to foster connections between electees from different electee teams as well as active members. You will be contacted soon for more information.

VIII. PAPERWORK

All paperwork should be turned in by Fifth General (April 14th) at the TBP Office (1226 EECS), at meetings, or directly to the Vice President via email or Slack.

i. Catalog Cards

You must complete a catalog card on the Nationals website to be allowed to elect. You will receive more information on this from the Secretary, Moon Hazarika, later in the semester. **Catalog cards must be completed by March 24th.**

ii. 6 Casual Peer Interviews

The interviews are to get to know your fellow members in Tau Beta Pi a little better. These interviews should be casual. At least two of the people interviewed must be active members. Think of 6 creative questions to ask members — no mundane questions will be accepted ("What is your favorite color?"). You will work on this with your assigned electee teams, where your leads will give you further instructions.

iii. Electee Exam

The electee exam tests your knowledge of the history of TBP and our chapter. It is not meant to be stressful. We encourage you to work on it together and drop by office hours to ask officers for answers! Please don't ask for answers via email — we want to get to know you!

IX. ONE-TIME MEMBERSHIP FEE OF \$105.

A one-time fee to be a member of Tau Beta Pi, which pays for electee supplies, the banquet, your bent, your certificate, your lifetime membership, etc. given to the Treasurer, Cate Costew. Checks should be made out to Tau Beta Pi. Cash is also accepted. **This is also due by Fifth General (April 14th).** You will receive more information about how to pay dues via email later in the semester. **If this fee poses a significant financial burden, please reach out to the Vice President for more information about a fee waiver as soon as possible.**



Character Evaluation - Winter 2026

Tau Beta Pi MI-G

Exemplary character is one of the requisites for membership in Tau Beta Pi. In addition to being active members of the engineering community, Tau Beta Pi members must meet the **highest standards of moral character**. Our chapter will assess your character through written essays and an interview.

Electee Interview Questionnaire:

The first component of the character assessment in Tau Beta Pi is the Electee Interview Questionnaire. You will be required to complete the questionnaire with three fun questions, three short answer questions, and one essay question. The questionnaire can be found under Members → Electee Resources and submitted to the website, while your résumé should be submitted to your website profile. Submit your **questionnaire responses and résumé** by **Monday, February 9th**.

Some of the short answer questions will provide you with the opportunity to share a part of your personality with us. Others will ask for your opinion on topics related to academic integrity. While some may not directly relate to your character, these questions will allow us to better understand you and your thinking.

As an organization that stresses the importance of exemplary character in our members, the essay is a **crucial** part of character assessment. This (one page) essay is a rather open-ended assignment, and we encourage you to get creative with your description. Nevertheless, exemplary character is not an arbitrary concept, and we are looking for specific evidence that you know what this important quality means. Tau Beta Pi members should meet the highest standard of moral character. The quotes on the following page may help inspire you on the subject of exemplary character, but don't limit yourself to those ideas.

The questionnaire can be found and completed under **Members → Electee Resources at tbp.engin.umich.edu**. Be ready to discuss your answers during your interview.

Interviews:

The interview is the most important part of character assessment. Interviews will be held in-person on **February 11th-13th** in the Duderstadt 1120A and 1120D. You must sign up for an interview slot. The interview will take 30 minutes, and you will be interviewed by one or two of our Active members. Dress is business casual. Electees can be denied membership on the basis of a negative interview, so take the process seriously. Don't stress too much about this, though, because it rarely happens. Interviewers will review the résumé and the answers to the Electee Interview Questionnaire you submitted by **Monday, February 9th**.

Interview Dates: **February 11th-13th**

Location: **Duderstadt 1120A and 1120D**

Requirements: **Dress is business casual**

Submit your questionnaire answers under Members → Electee Resources at **tbpmig.org/questionnaire**

and your résumé to your website profile by Monday, February 9th.

If you have any questions or scheduling issues, please contact the Vice President (tbp.vicepresident@umich.edu).

Quotes about Character

"But rules cannot substitute for character."

– Alan Greenspan, former chairman of the U.S. Federal Reserve Board (b. 1926)

"Character, not circumstance, makes the person."

– Booker T. Washington, American educator and civil rights activist (1856-1915)

"Character is like a tree and reputation like its shadow. The shadow is what we think of it; the tree is the real thing."

– Abraham Lincoln, 16th U.S. president (1809-1865)

"One can acquire everything in solitude - except character."

– Henri Stendahl, French novelist (1783-1842)

"It is with trifles, and when he is off guard, that a man best reveals his character."

– Arthur Schopenhauer, German philosopher (1788-1860)

"Weakness of attitude becomes weakness of character."

– Albert Einstein, Swiss-American mathematician and physicist (1879-1955)

"Character cannot be developed in ease and quiet. Only through experience of trial and suffering can the soul be strengthened, vision cleared, ambition inspired, and success achieved."

– Helen Keller, American author, activist and lecturer (1880-1968)

"When the character of a man is not clear to you, look at his friends."

– Japanese Proverb

"The right way is not always the popular and easy way. Standing for right when it is unpopular is a true test of moral character."

– Margaret Chase Smith, American Senator (1897-1995)

"The best index to a person's character is (a) how he treats people who can't do him any good, and (b) how he treats people who can't fight back."

– Abigail Van Buren, American columnist (1918-2013)



Service Project Descriptions

Winter 2026

Tau Beta Pi MI-G

The following projects and descriptions are examples of some of the service projects that our chapter has carried out in the past. The complete list of service projects that will be done this semester is uncertain due to the constantly evolving opportunities our members discover. However, this list should give you a good sense of the different types of service projects that we undertake. If you see an event you'd like to participate in that hasn't been scheduled, you may also take the lead on it yourself. This semester is a great time to have creative ideas and take advantage of TBP resources for service events. Also, if we have a large amount of electees and general motivation to do larger scale community service, we have a community outreach plan set up that consists of a lot of groundwork/direct interaction with the Michigan/Ann Arbor community. If you are interested in any of this please contact Vasiliki (Valia) Tsirikis(tbp.service@umich.edu); it is never too early to start getting involved in leadership. Note that the list below is only a taste of the service projects we have carried out.

Ann Arbor Natural Area Preservation Stewardship Workdays: Ann Arbor Natural Area Preservation (NAP) is a section of the Ann Arbor Government that specializes in the preservation of public parks and nature reserves. NAP hosts weekend Stewardship Workdays that welcome groups of volunteers to help remove invasive plant species to preserve biodiversity.

Ann Arbor Probity Marathon: TBP has had the opportunity to volunteer with set-up and awards for the large Ann Arbor Probity Marathon.

Cub Scouts Day: Cub Scouts Engineering Day is a TBP-organized event for local Cub Scouts troops to receive their engineering badges. Activities include bridge building, egg drop, circuits, and floor plan. Volunteers are needed to help run these stations and to lead groups of Cub Scouts through the stations.

Engineering Day for Detroit: Engineering Day for Detroit is a full day K-12 event that targets Detroit school districts. Previous modules include bridge building, egg drop, and sphero coding.

FIRST Robotics with FAMNM: TBP, in association with the FIRST Alumni and Mentors Network at Michigan (FAMNM), has become involved with volunteering for local FIRST robotics competitions.

Hands-On Musuem: The Ann Arbor Hands-On Museum aims to inspire people to discover the wonder of STEM. Have fun with kids while learning cool science facts! Past events include helping children make their own microbes, exploring unique musical instruments, and celebrating DNA day.

Kiwanis Thrift Sale: Kiwanis Thrift Sale is one of the largest thrift sales in Ann Arbor and is run completely by volunteers. They are always looking for more help with sorting, transporting, and the sale of donated goods.

KnitWits: KnitWits helps the less fortunate during the cold winters by creating warm clothes from donated material. We tie together scraps of fleece to make blankets, hats, and scarves for the homeless here in Ann Arbor. No experience is necessary; instructions and materials all provided!

Maize & Blue Cupboard North Campus Food Distribution: Maize & Blue Cupboard is a free food pantry located on Central Campus that holds bi-weekly North Campus distribution events. The goal of these events is to supply students on North Campus with fresh produce and combat food insecurity.

Merit Badge Day: Merit Badge Day (MBD) is a TBP-organized event for Scouting troops to receive their merit badges with an emphasis on engineering and technology. Activities include learning binary, arduino, soldering, and more. Volunteers spend the day in small groups guiding Scouts through the activities.

MindSET: MindSET is a K-12 program where we invite students from local school districts to come learn about engineering concepts through rotating modules. Previous modules include: making ice cream, sphero robot coding, and cardboard guitar.

NEST: NEST (New Engineering Futures For Tomorrow) is a yearly TBP competition where teams of students work together to present "Engineered for the Greater Good Solutions" at convention. Previous topics include waste management and resource insecurity.

University of Michigan Science Olympiad: University of Michigan Science Olympiad (UMSO) provides an excellent opportunity for both middle school and high school science olympiad teams to compete in a variety of STEM activities. TBP has provided dozens of volunteers to help grade and supervise events.

Zooniverse: Zooniverse is a completely virtual service opportunity that sees volunteers classifying elements for large-scale data sets. Topics include cosmology, biology, history, and many more!



Undergraduate Electee Exam

Winter 2026

Tau Beta Pi MI-G

INSTRUCTIONS:

This exam will cover the history and organization of Tau Beta Pi at a national level as well as the history and organization of our chapter, Michigan Gamma. This exam is not meant to be difficult, and you should not stress about it. Please complete this exam and turn it in to the Vice President, Aidan Shores, or the TBP office (1226 EECS), no later than the Fifth General meeting, April 14th. Digital copies (i.e. from an iPad) are accepted.

THE EXAM HONOR CODE

I have given and received aid on this examination. I have exposed no honor code violations. (There are none!)

Name: _____ Uniqname: _____
(Please print)

1. Name all of the officers of Michigan Gamma, their positions, and majors (there are 17).
2. Name all of the faculty, alumnus, and student advisors of Michigan Gamma and their departments.
3. When and where was Tau Beta Pi Engineering Honor Society founded?
4. Who was the founder of Tau Beta Pi?
5. Where is the national headquarters of TBP located?

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6. With what other organization did TBP merge in 1974, and why?
 7. What is the original Tau Beta Pi yell?
 8. What is the revised yell?
 9. Create a Michigan Gamma yell. (Make a remix with the same format!)
 10. Which founding (charter) member of Michigan Gamma has a North Campus building named after him?
 11. Where are the 3 brass bents (permanently mounted) located throughout campus?
 12. List the national requirements to be considered for TBP membership as an undergraduate.
 13. List the ideals of Tau Beta Pi Honor Society as stated in the preamble of our constitution.
 14. What is the symbol of the TBP motto?
 15. What are TBP's colors?

-
16. Identify a Tau Beta Pi laureate from Michigan Gamma.
 17. Name 3 other schools in the same district as Michigan Gamma.
 18. Get at least 5 signatures from Tau Beta Pi actives from Michigan Gamma who are not officers. (There are over 7500 of them - remember, once a member, always a member).
 19. Get at least two signatures of current Tau Beta Pi officers, where they write their signature upside down (i.e. it should be flipped over in the orientation you are reading this in). Going to office hours is a great way to find these! NO turning the paper to do this!

OFFICER/ADVISOR QUESTIONS

Below are some interesting facts about the officers and advisors of Michigan Gamma posed as questions.

20. BESIDES TBP: Find out which officer/advisor chose each of the following as their favorite extracurricular (*besides TBP, of course*) and write their name next to the activity:

1. Sleeping
2. MSAIL
3. Swimming
4. Historical Linguistics
5. Michigan Rifle Team
6. The Every Three Weekly (satire newspaper)
7. Thai Student Association
8. Reading
9. Autonomous Robotic Vehicle
10. HKN
11. Michigan Transportation Student Org (MiTSO)
12. Swimming
13. Michigan Pops Orchestra
14. MRover
15. Visiting friends who have cats
16. CLAWS
17. Center for Healthcare Engineering and Patient Safety

21. ELECTEE TEAMS: All of our officers were once electees like you. Find which electee teams they were on, and write down the name of the team:

Katherine	Aidan
Lexie	Moon
Cate	Cap
Anushka	Valia
Kaushal	Yagho
Ava	Natalie
Nicholas	Catherine
Chaison	Peak
Alyssa	Hunter

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22. Which officer/advisor built a 1:1 scale replica of the Hungarian Parliament Building in survival Minecraft?
 23. Which officer/advisor was invited to join MARINA on stage at her concert (and therefore had to miss her Second Gen meeting)?
 24. Which officer/advisor memorized 1331 digits of pi for a competition?
 25. Which officer/advisor once saw Michael Phelps in downtown Ann Arbor?
 26. Which officer/advisor has a farm back in Brazil over 400 years old?
 27. Which officer/advisor ran a bullet journaling Instagram Account in middle school?
 28. Which officer/advisor won first place in a luging competition?
 29. Which officer's/advisor's grandparents met at UMich?
 30. Which officer/advisor was born in Taiwan?
 31. Which officer/advisor can name all the countries by their outline?
 32. Which officer/advisor used to have a Brazilian passport?
 33. Which officer/advisor was once a scare actor in a haunted house?
 34. Which officer/advisor has a black belt in Karate?
 35. Which officer/advisor likes to make jewelry?

36. Which officer/advisor did competitive swimming for 10.5 years before college, then switched to racing triathlons and marathons.?

37. Which officer/advisor has double jointed pinkies?

38. Which officer/advisor is certified in scuba diving?

39. Which officer/advisor has been playing guitar since they were five years old?

40. Which officer/advisor played a fork in a middle school musical?

BULLPEN QUESTIONS (1226 EECS)

41. Where is the Michigan Gamma office and have you been there?

***If you answered "no," go there right now**

42. What is SWE's motto? (bonus points if you write it how it's displayed on their sign in the bullpen)

43. Who was the TBP President when you were born?

44. Which US president congratulated MI-Gamma on the 100th anniversary of our founding?

45. Our office cabinet has pictures of the bents from what colleges?

46. What org's office is directly adjacent to the TBP office?

FUN BONUS PROBLEMS

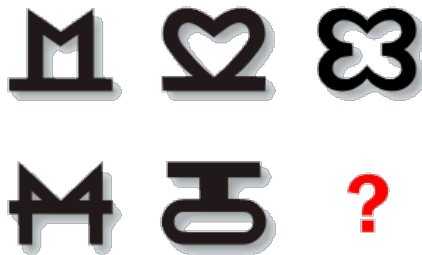
47. Write the 3 letters that should come next in this series:

B A A C E E D I I E M M F _ _ _

48. What should the seventh line in this pyramid be?

1
11
21
1211
111221
312211

49. What is the next symbol in the sequence?



ADDITIONAL BONUS

50. To the optimist, the glass is half full.

To the pessimist, the glass is half empty.

To the engineer, the glass is _____.

51. What do you get if you cross a grape with an elephant?

52. How many times can you fold an 8.5" by 11" piece of paper in half?

53. What do you call a Local Area Network in Australia?

54. Fill in the blank: "I take 10 steps with a _____ left vision / Study the disorders we've absorbed inside the village"

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55. Fill in the blank: "Obviously dead _____, and spent every red cent / To rule you, and still drop more jewels than schools do / Or even TV news that's designed to fool you"
56. Fill in the blank: "When I consider how my light is spent / E're half my days, in this dark world and wide, / And that one Talent which is death to hide / Lodg'd with me useless, though my Soul more _____"
57. A man has a barrel with filled with oil that weighs 100 pounds, and then he puts something into it. Now the barrel weighs less than 100 pounds. What did he put in the barrel?