สรุปย่อเนื้อหา COM101

โดยนายชานนทร์ เหลืองประเสริฐ

Introduction

1. **คอมพิวเตอร์ทำงานอย่างไร**

คอมพิวเตอร์ประกอบไปด้วย CPU หรือ central processing unit หรือเรียกว่าเป็นหน่วยประมวผลกลางหรือตัวคิด (ไม่ว่าจะเป็นการคิดแบบคำนวณทางคณิตศาสตร์หรือคิดแบบตัดสินใจจากการใส่เงื่อนไขเข้าไปและการคิดนี้จะนำไปสู่การคิดที่ซับซ้อนขึ้น) นั่นเอง ซึ่งเมื่อ CPU ต้องการจะคุยกับส่วนประกอบอื่นก็จะทำผ่าน BUS ทั้งไปและกลับ

ส่วนประกอบต่อไปจะเรียกว่า RAM หรือ Random access memory (แปลว่า memory ที่เข้าถึงได้แบบ random หรือเท่าเทียมกัน) มีหน้าที่จำ โดย RAM เป็นช่องจำนวนมากสำหรับเก็บข้อมูลเช่น RAM 4 GB ก็จะมี 4 พันล้านช่อง ไม่ว่าจะ access เข้าในช่องไหนก็จะใช้เวลาเท่า ๆ กัน (ไม่เหมือน CD-ROM ที่ต้องหมุนก่อนเพื่อให้ access เข้าได้ตามช่องที่กำหนด) ซึ่ง RAM จะเชื่อมต่อกับ BUS เหมือนกัน

ส่วนอื่น ๆ ที่เหลือนอกจาก CPU กับ RAM จะถูกเรียกรวม ๆ กันว่า I/O ย่อมาจาก input output unit ถ้าพิจารณาจาก keyboard , mouse , หน้าจอที่มาต่อรวมกันเป็นคอมพิวเตอร์แล้ว keyboard กับ mouse ก็จะเป็น input คือนำเข้าข้อมูลจากมนุษย์ ส่วนหน้าจอ (หรือลำโพง เครื่อง printer แขนกล) จะเป็น output ส่งกลับออกไป

ข้อมูลจะไหลจาก keyboard เข้าไปใน RAM เพื่อจำหรือรับตัวเลขจาก keyboard เข้าไปใน CPU เพื่อคิดหาผลลัพธ์ก่อนและค่อยไหลเข้าไปใน RAM

1. **ทำไมต้องมีคอมพิวเตอร์**

การทำงานของสมองมนุษย์มีข้อจำกัดจากการจำ (เช่นการจำตัวเลข 3 5 7 9 5 4 5 6 8 5 3 2 ซึ่งบางคนก็จำได้แต่เมื่อเวลาผ่านไปนาน ๆ ก็จะเริ่มลืมแล้ว) และการคำนวณ (เช่นการหาผลลัพธ์ของ 235643 \* 8723999983ภายใน 1 วินาที) แต่คอมพิวเตอร์สามารถจำได้นานเป็นปีและสามารถคำนวณได้รวดเร็วมาก มนุษย์จึงต้องให้คอมพิวเตอร์ช่วยจำ (กรณีนี้โทรศัพท์มือถือก็เป็นคอมพิวเตอร์) และคิดแทนมนุษย์ (เช่นการเดิน การวิ่ง การยิงปืนในเกม)

1. **การเขียนโปรแกรมคืออะไร**

ในการที่คอมพิวเตอร์จะทำงานได้ต้องมีสิ่งที่เรียกว่า hardware กับ software

Hardware คือสิ่งที่เป็นตัวเครื่อง ส่วน software คือโปรแกรมคือสิ่งที่อยู่ข้างในคอมพิวเตอร์ ถ้าเทียบกับมนุษย์ แขน ขา มือ สมอง ของมนุษย์คือ hardware ส่วนการคิดของมนุษย์คือ software การคิดที่ต่างกันทำให้มนุษย์ต่างกัน เครื่องใช้ไฟฟ้าเช่นโทรศัพท์มือถือ,ตู้เย็น,microwave,remote ก็มี software แฝงอยู่

การเขียนโปรแกรมจึงเป็นการเอา hardware มาทำให้สามารถทำงานได้โดยการเขียนชุดคำสั่งลงไป

1. **ประวัติศาสตร์ของคอมพิวเตอร์**

ในช่วงสงครามโลกครั้งที่ 2 มนุษย์ต้องการอุปกรณ์คำนวณเพื่อใช้ในการทำสงคราม

คอมพิวเตอร์ในปัจจุบันถูกสร้างขึ้นตามรูปแบบของ Turing machine ซึ่ง Turing machine ถูกคิดขึ้นโดย Alan Mathison Turing (ผู้ให้กำเนิดคอมพิวเตอร์) นักคณิตศาสตร์ชาวอังกฤษ ผู้ที่สามารถแก้รหัส Enigma ซึ่งเป็นรหัสลับที่ฝ่ายเยอรมันใช้สื่อสารกันได้โดยวิวัฒนาการของฝั่ง hardware จะเป็น relay > หลอดสุญญากาศ > transiter > วงจรรวม > CPU

แต่สำหรับฝั่ง software นั้นจะเกิดขึ้นจากในช่วงสงครามโลกครั้งที่ 2 เวลาที่ต้องการยิงปืนใหญ่ก็จะต้องคำนวณว่าจะต้องตั้งปืนที่มุมเท่าใด ใส่ดินปืนเท่าใด ทิศทางลมเป็นอย่างไรให้ยิงลงไปที่ตำแหน่งของศัตรู สหรัฐอเมริกาจึงสร้างตัวคิดคำนวณขึ้นมาเป็นคอมพิวเตอร์ยุคแรกและคอมพิวเตอร์ยุคแรกนี้ต้องใช้กับบัตรเจาะรูที่เป็นรหัส 0 กับ 1 เช่นหากต้องการบวกเลขก็ต้องใช้ machine code (หรือ 0 กับ 1) โดยกำหนดว่าให้ 0011 เป็นการบวก , 0110 เป็นการลบ ซึ่งภาษา machine code เป็นภาษาที่เข้าใจได้ยาก มนุษย์จึงสร้างสิ่งที่เรียกว่าภาษา Assembly โดยเป็นการกำหนดคำว่า add ให้เป็น 0011100 ซึ่งมีความหมายให้บวก แต่ภาษา Assembly ก็ไม่สามารถแก้ไขปัญหาได้มากนักและไม่สามารถลดการเขียน code คำสั่งได้มากนัก จึงมีผู้พัฒนาต่อโดยเปลี่ยนจากคำว่า add ให้เป็นเครื่องหมาย + แล้วเปลี่ยนโครงสร้างเป็น add a , b store c หมายถึงบวกค่า a กับ b แล้วเอาไปเก็บใน c

แล้วต่อมาก็มีผู้พัฒนาภาษาขึ้นมาใหม่อีกเรียกว่าภาษา Basic แล้วกำหนดโครงสร้างภาษาให้เป็น c=a+b เพื่อให้ใกล้เคียงกับภาษามนุษย์มากขึ้น (หรือเรียกว่าภาษาระดับสูง) และต่อมาก็มีผู้พัฒนาภาษา Basic แล้วเปลี่ยนชื่อให้เป็นภาษา C ซึ่งชื่อ C มาจากการเรียงต่อมาจาก Assembly ที่มีสกุลไฟล์เป็น .A และ Basic ที่มีสกุลไฟล์เป็น .B

ภาษา C จะมีสิ่งที่เรียกว่า function ซึ่งทำให้มนุษย์สามารถลดการเขียน code ลงได้มากทำให้ภาษา C ได้รับความนิยมเป็นอย่างมากและเมื่อได้รับความนิยมอย่างมากทำให้มีผู้พัฒนาภาษา C ต่อมาอีกจนต่อมากลายเป็นภาษา C++ (เพิ่มเรื่อง OOP) และจาก C++ ก็มีผู้พัฒนาต่อไปเป็นภาษา JAVA แล้วต่อมา Microsoft ก็เอาภาษา JAVA มาปรับปรุงบางส่วนจนเกิดเป็นภาษา C# และเอาภาษา Basic มาปรับปรุงบางส่วนเช่นกันจนเกิดเป็นภาษา Visual Basic (ปัจจุบันก็ถูกพัฒนาต่อมาเป็น VB.NET)

โดยสรุปแล้วภาษาถูกพัฒนาขึ้นเพื่อแก้ไขปัญหาจากภาษาเก่า ๆ และเพื่อการตลาด

1. **การเขียนโปรแกรมต้องรู้อะไรบ้าง**

ต้องรู้ 4 อย่างคือ

1. คณิตศาสตร์ (ที่ไม่ซับซ้อน) ระดับมัธยมปลาย
2. ภาษาอังกฤษ
3. เวลาเรียน
4. ทำการบ้าน

สิ่งที่จะทำให้ผู้เรียนเขียนโปรแกรมเป็นจะต้องรู้

1. เรื่องภาษา ซึ่งผู้เรียนจะใช้พลังงาน 5%
2. Algorithm ซึ่งผู้เรียนจะใช้พลังงาน 30%
3. การศึกษา library (เพราะผู้เรียนจะไม่เขียนใหม่ตั้งแต่ต้นแต่ให้ใช้ต่อของที่คนอื่นคิดมาแล้ว NASA ก็ไม่เริ่มจากการไปนั่งใต้ต้น apple) ซึ่งผู้เรียนจะใช้พลังงาน 30% (library คือ code ที่คนอื่นคิดมาแล้ว) เพราะความรู้ในโลกนี้เกิดจากกระบวนการเรียนรู้ที่สะสมต่อเนื่องกันมา (เป็นภาษาอังกฤษ) ตัวอย่างเช่นทฤษฎีการเคลื่อนที่ของดาวต่าง ๆ ก็ถูกคิดต่อเนื่องกันมาโดย NICOLAUS COPERNICUS > JOHANNES KEPLER > GALILEO GALILEI > SIR ISAAC NEWTON การสร้างโปรแกรมก็เช่นกัน
4. IDEA ซึ่งผู้เรียนจะใช้พลังงาน 35%

หากอยากเขียนโปรแกรมเก่งก็ต้อง “ฝึกเยอะ ๆ” 10,000+ ชั่วโมง

BILL GATE ฝึกเขียนโปรแกรมตั้งแต่อายุ 16 ปี ทุกวัน วันละ 8-10 ชั่วโมงจนถึงอายุ 21 ปี รวม ๆ แล้วก็ประมาณ 4,000+ ชั่วโมง ซึ่งถ้านับจนถึงช่วงเวลาทำงานกับตั้งบริษัท Microsoft ด้วยก็มากกว่านั้นอีก

TIGER WOOD ตีกอล์ฟตั้งแต่อายุ 3 ปีจนถึง 16 ปี รวม ๆ แล้ว 10,000+ ชั่วโมงก่อนที่จะเริ่มเล่นกอล์ฟเป็นอาชีพ

1. **ภาษา**

การเขียนโปรแกรมคือการสั่งให้คอมพิวเตอร์ทำงานให้แทนมนุษย์ และมนุษย์ก็ต้องสอนคอมพิวเตอร์ก่อนโดยการใช้ภาษา ภาษาจะมี 2 อย่างคือ 1 คำศัพท์ 2 ไวยากรณ์ ตัวอย่าง ภาษา C , C++ , C# , JAVA , PYTHON , VB.NET , PHP แต่ละภาษาก็มีจุดเด่นต่างกันไปเช่น C , C++ ใช้ในโรงงานที่ต้องมี performance สูง ๆ ได้ดีแต่ใช้ยาก

คนหนึ่งคนพูดภาษาไทยได้ พูดภาษาอังกฤษได้ พูดภาษาอื่น ๆ ให้คนอื่นเข้าใจได้แต่คอมพิวเตอร์ไม่เข้าใจเพราะคอมพิวเตอร์รู้จักแต่ 0 กับ 1 วิธีสื่อสารกับคอมพิวเตอร์จะมีหลายวิธีเช่น ให้คนไปเรียน machine code คือท่อง 0 1 ว่าคืออะไรแต่การทำแบบนี้คนก็ไม่ไหว คนก็เลยคิดภาษากลางระหว่าง 0 1 กับภาษาคนขึ้นมาเช่น ภาษา JAVA ที่จะถูกนำไป compile (compile คือการแปลภาษาคอมพิวเตอร์ให้เป็น machine code 0 1 ทีเดียวทั้งหมด) เพื่อให้คอมพิวเตอร์เข้าใจโดยตัว compiler จะต่างกันออกไปในแต่ละภาษาเช่น JDK , .NET FRAMEWORK (\*\* ยกเว้น PYTHON ใช้เป็น interpreter แทนคือการ compile ทีละบรรทัด ทำให้หาข้อผิดพลาดง่ายแต่ช้า)

Main

การเขียนโปรแกรมคอมพิวเตอร์ไม่ได้มีแต่เรื่องของภาษาอย่างเดียว เช่นมีเรื่อง architecture , network , distributed system , os (operating system) การรู้เรื่องพวกนี้ทำให้สามารถเขียนโปรแกรมได้ดีขึ้น การเขียนโปรแกรมโดยที่ไม่รู้เรื่องอื่นก็รันผ่านเหมือนกันแต่พอเกิดปัญหาจะแก้ไม่ได้หรือไม่รู้ว่าจะต้องใช้เวลาแก้นานเท่าใด คุ้มค่ากับการลงทุนหรือไม่ นอกจากนี้ยังทำให้ตื่นเต้นและตามกระแสไปตามการตลาดของผู้ขาย

เช่น ระบบปฏิบัติการ UNIX หรือ micro service ที่เคยเป็นที่นิยมอยู่ช่วงหนึ่งทั้ง ๆ ที่ไม่ใช่แนวคิดที่ใหม่อะไรเลย

Course นี้จะ

1. เป็นพื้นฐานของการเขียนโปรแกรม
2. เวลาเกิดปัญหาก็สามารถแก้ได้
3. สามารถไปศึกษาเทคโนโลยีใหม่ ๆ ต่อได้อีก

***ความรู้เบื้องต้นเกี่ยวกับคอมพิวเตอร์***

คอมพิวเตอร์เป็นสิ่งที่มีบทบาทมากต่อทุกอาชีพ เช่น พนักงานธนาคารก็ใช้ AI หรือ machine learning ดูว่าจะปล่อยกู้ให้ลูกหนี้หรือไม่ , การทหารที่ใช้ drone ดูตำแหน่งศัตรู , การซื้อสินค้าผ่าน internet , การ work from home และมีแนวโน้มจะมากขึ้นในอนาคต สมัยก่อนคอมพิวเตอร์จะมีขนาดใหญ่มาก ราคาแพงมาก และอยู่ในห้องใหญ่ ๆ หรือห้อง lab เท่านั้นแต่จนถึงตอนนี้ขนาดก็เล็กลงจนเท่าโทรศัพท์มือถือ ราคาก็ถูกลงมาก มีคนเข้าถึงได้มากซึ่งทั้งหมดนี้เกิดขึ้นจากการออกแบบของวิศวกรคอมพิวเตอร์ทั้งสิ้น

คอมพิวเตอร์เป็นอุปกรณ์ในการ process ข้อมูลแต่ก็มีอย่างอื่นที่ process ข้อมูลได้เหมือนกันเช่น cell ของมนุษย์ในการกำจัดเกลือหรือน้ำตาลส่วนเกินออกจากเลือดหรือต้นไม้ที่สามารถวิวัฒนาการให้ใบอยู่สูง ๆ เพื่อไม่ให้สัตว์มากินแล้วสัตว์ก็วิวัฒนาการให้ตัวสูงขึ้นเพื่อตามไปกิน การวิวัฒนาการก็เป็นการ process ข้อมูลเหมือนกัน

แต่สำหรับคอมพิวเตอร์แล้ว การ process ข้อมูลจะทำผ่าน algorithm (algorithm เป็นชื่อนักคณิตศาสตร์ชาวเปอร์เซีย) ซึ่ง algorithm คือการคิดหรือทำอะไรบางอย่างเป็นขั้นตอน algorithm ต้องการ input (ซึ่งอาจมีหลาย input ได้) เมื่อ input ผ่าน algorithm ก็จะกลายเป็น output สำหรับกรณีของ cell มนุษย์แล้ว input ก็จะเป็นปริมาณน้ำตาลหรือเกลือ ความจริงแล้ว cell ก็ไม่รู้ว่าจะต้องทำอย่างไรกับน้ำตาลหรือเกลือที่เยอะขึ้นแต่จะมีสิ่งที่ถูกบันทึกไว้อยู่แล้วคือ DNA บอกว่าต้องกำจัดส่วนที่เกินกว่าที่ต้องการออก (สำหรับคอมพิวเตอร์คือ memory) เชื้อ virus ที่ระบาดอยู่ก็เกิดจาก DNA หรือ RNA ที่สั่งให้ cell copy ตัวเองแล้วแพร่กระจายออกไป (เหมือนเป็นการขยายพันธุ์ตามปกติ)

**DATA กับ INFORMATION**

DATA หรือ RAW DATA คือข้อมูลดิบเป็นข้อเท็จจริงที่มีการรวบรวมไว้ อาจเป็นตัวอักษร รูป เสียง ภาพเคลื่อนไหวที่ยังไม่ได้ทำอะไร ต้องถูกนำไปผ่าน algorithm แล้วออกมาเป็น INFORMATION ตัวอย่างของ RAW DATA จะเป็นรายได้ของประชากรทั้งประเทศ (ซึ่งก็ใช้ไม่ค่อยได้)

INFORMATION หรือสารสนเทศ คือข้อมูลที่เอามาวิเคราะห์แล้ว มีการจัดเรียง แปรรูป ประมวลผล มีความหมายและเอาไปทำอย่างอื่นต่อได้ ตัวอย่างของ INFORMATION จะเป็นรายได้เฉลี่ยของประชากรทั้งประเทศหรือรายได้ที่มากที่สุด น้อยที่สุดหรือตามกลุ่ม สารสนเทศอาจจะกลายไปเป็น DATA ของงานอื่นก็ได้

การประมวลผลข้อมูลของสารสนเทศจะใช้คอมพิวเตอร์ซึ่งจะมีตั้งแต่จัดเรียง แบ่งกลุ่ม หาค่ากลาง หาค่าสูงสุดต่ำสุด ขึ้นอยู่กับว่าใส่สูตรอะไรเข้าไป

ในธุรกิจก็มีการนำคอมพิวเตอร์มาช่วยให้ข้อมูลเพื่อตัดสินใจแทน

ซึ่งสมัยก่อนจะเป็นแบบนี้

ICT > ข้อมูลทางธุรกิจ > process > information > คนดู > การตัดสินใจ

แต่สมัยใหม่จะเป็นแบบนี้

ICT > ข้อมูลทางธุรกิจ > AI > การตัดสินใจ

AI คือ Artificial Intelligence หรือ software ที่มนุษย์เขียนไว้แล้วว่าถ้าข้อมูลมาเป็นแบบนี้จะให้ทำอย่างไรต่อไปเช่น คนก็จะมีข้อมูลของคนเช่นประวัติการชำระหนี้ อาชีพ เงินเดือน อายุ เพศ สมัยก่อนก็จะเอาข้อมูลพวกนี้ไปให้คนพิจารณาและอนุมัติแต่สมัยใหม่จะใช้ AI พิจารณาและอนุมัติแทน แล้ว AI ก็จะเรียนจากข้อมูลจริงที่เรียกว่า machine learning หรือสมัยก่อนเมื่อจะถอนเงินก็ต้องไปที่ธนาคารแต่สมัยนี้ใช้ app แทนเพื่อประหยัดเงิน

สรุปแล้ว คอมพิวเตอร์คืออุปกรณ์ที่ใช้แก้ปัญหาต่าง ๆ ด้วยคณิตศาสตร์

**ประวัติศาสตร์ของคอมพิวเตอร์**

เราเรียนรู้ประวัติศาสตร์เพื่อเข้าใจปัจจุบัน เราเข้าใจปัจจุบันเพื่อทำนายอนาคต นักเขียนโปรแกรมไม่เขียนโปรแกรมเพื่อใช้ในปัจจุบันแต่เพื่อใช้ในอนาคต ตัวอย่างเช่น YouTube ที่ถูกสร้างขึ้นมาในสมัยที่ internet ยังเป็นโมเดมอยู่เพื่อดักหน้าความนิยมใน internet

คอมพิวเตอร์มีลักษณะเด่นดังนี้

* ความเป็นอัตโนมัติ คอมพิวเตอร์สามารถจัดเก็บข้อมูลในรูปแบบของสัญญาณไฟฟ้าหรือ binary system (คือ 0 หรือ 1) และประมวลผลโดยอัติโนมัติตามคำสั่งที่ถูกเก็บไว้ในคอมพิวเตอร์
* ความเร็ว คอมพิวเตอร์สามารถบวกเลข (หรือคำนวณทางคณิตศาสตร์อื่น ๆ) ได้เร็วกว่าคนมาก
* ความถูกต้องและแม่นยำ หากให้คนบวกเลขหรือคูณเลขก็อาจจะมีผิดบ้างแต่คอมพิวเตอร์จะแม่นยำกว่ามากหรือให้คนจำเลขโทรศัพท์ คนก็อาจจะจำไม่ได้แต่คอมพิวเตอร์จำได้
* ความน่าเชื่อถือ ข้อมูลที่ได้จากการประมวลผลของคอมพิวเตอร์จะน่าเชื่อถือและนำไปประยุกต์ใช้ได้
* การจัดเก็บข้อมูล คอมพิวเตอร์สามารถจัดเก็บข้อมูลได้หลายรูปแบบ (ตัวเลข ตัวอักษร รูปแบบ เสียง)
* ทำงานซ้ำ ๆ ได้ ถ้าให้คนบวกเลข 2,000 ครั้งก็เริ่มผิดแล้ว ในยุคสงครามโลกเวลาจะยิงปืนใหญ่ใส่ศัตรูก็ต้องใช้คนคำนวณโดยใช้กระดาษกับปากกา
* การติดต่อสื่อสาร คอมพิวเตอร์สามารถติดต่อสื่อสารระหว่างกันได้ (เช่นผ่านสาย LAN , ผ่าน internet)

ในสมัยก่อน มนุษย์ต้องการอุปกรณ์บางอย่างมาทำงานแทนเพราะมนุษย์ต้องมีการคำนวณตลอดเยอะมากตั้งแต่การใช้นิ้วมือนับเลข ใช้หินนับเลข ทำบัญชี คิดดอกเบี้ยหรือนักบาสเก็ตบอลที่กำลังจะรับลูกบาสที่ถูกส่งมาก็จะต้องมีการประมาณการว่าลูกบอลจะไปทางไหนต่อ ซึ่งสมองก็จะมีการคำนวณให้โดยที่มนุษย์ไม่รู้ตัว การคำนวณทำให้มนุษย์เข้าใจโลกมากขึ้นว่าสิ่งต่าง ๆ ดำเนินการไปอย่างไร สมการทางฟิสิกส์เล็ก ๆ สามารถทำให้มนุษย์สามารถเข้าใจอดีตและทำนายอนาคตได้และสามารถใช้แทนการบรรยายตัวอักษรยาว ๆ ได้

นอกจากนี้ยังมีเรื่อง Algorithm ที่ดีและไม่ดีตัวอย่างเช่นมีคน ๆ หนึ่งอยู่ในบ้านที่มีหลายคนอยู่อาศัย คนในบ้านชอบกินและไม่ชอบกินสิ่งที่แตกต่างกัน คน ๆ นี้ก็ต้องทำอาหารที่ทุก ๆ คนพอกินได้แบบนี้เรียกว่าเป็น Algorithm ที่ดี ส่วนสิ่งที่ซับซ้อนขึ้นไปอีกก็จะเป็น Machine learning ที่จะเป็นการหากฎทางคณิตศาสตร์จากข้อมูลที่มีอยู่โดยให้คอมพิวเตอร์เรียน คอมพิวเตอร์จึงเป็นเรื่องทางคณิตศาสตร์ทั้งสิ้น

คอมพิวเตอร์ที่สมบูรณ์จะทำได้ 3 อย่างคือ

* Arithmetic (การบวก ลบ คูณ หาร)
* Logic (And Not Or)
* Control (If Else Loop)

คนในสมัยก่อนจึงต้องการสร้างคอมพิวเตอร์ขึ้นมาช่วยคำนวณและในคอมพิวเตอร์ก็จะเป็นการคำนวณทั้งหมดเช่นตำแหน่งในจอที่เป็นจุดพิกัดแกน x , y

วิวัฒนาการของคอมพิวเตอร์จะแบ่งออกเป็น 4 ยุคคือ

1. ยุคก่อนเครื่องจักรกล
2. ยุคเครื่องจักรกล
3. ยุคเครื่องจักรกลระบบอิเล็กทรอนิกส์
4. ยุคเครื่องอิเล็กทรอนิกส์

**ยุคก่อนเครื่องจักรกล**

จะเป็นการนับเลขด้วยมือ , ก้อนหิน , ใช้ salamis tablet (อุปกรณ์ช่วยนับที่เวลาใช้ก็เอาหินมาวาง ใช้ในตอนที่ซื้อขายสินค้า) , abacus , Napier bones , slide rule (โรงไฟฟ้านิวเคลียร์ทุกโรงที่ยังเปิดดำเนินการอยู่ก็ยังใช้ slide rule หรือเครื่องบิน black bird ก็ยังใช้ slide rule อยู่)

ตัวอย่าง slide rule

![รูปภาพประกอบด้วย ข้อความ, มาตราส่วน, อุปกรณ์, ไม้วัด

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RE6RXhpZgAATU0AKgAAAAgABAE7AAIAAABBAAAISodpAAQAAAABAAAIjJydAAEAAAAuAAARBOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOC4iuC4suC4meC4meC4l+C4o+C5jCDguYDguKvguKXguLfguK3guIfguJvguKPguLDguYDguKrguKPguLTguJAAAAAFkAMAAgAAABQAABDakAQAAgAAABQAABDukpEAAgAAAAM2OQAAkpIAAgAAAAM2OQAA6hwABwAACAwAAAjOAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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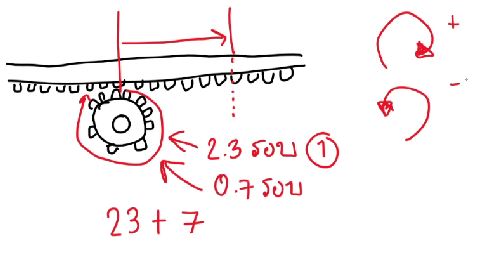
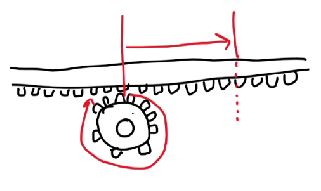
จะมีแถว K,A,B,L,C,D ตัวอย่างการบวกเลขเช่น 2+3 ก็จะใช้แถว C กับแถว D โดยการเลื่อนเลข 1 ในแถว C ให้ไปอยู่แถวเดียวกันกับเลข 2 ในแถว D (วงกลมแดง) แล้วไปดูในเลข 3 ของแถว D (ซึ่งจะตรงกับเลข 5 ของแถว C)

ส่วนการคูณเช่น 2\*3 ก็จะใช้แถว C กับ D เหมือนกันโดยการเลื่อนเลข 1 ในแถว C ให้ไปอยู่แถวเดียวกันกับเลข 2 ในแถว D เช่นกัน แต่จะไปดูในเลข 3 ของแถว C แทน (ซึ่งจะตรงกับเลข 6 ของแถว D)

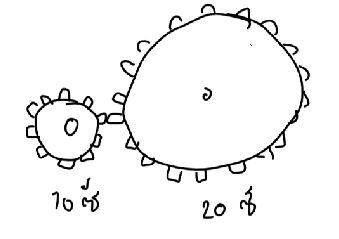
การจับคู่ของแต่ละแถวจะแสดงการคำนวณที่ต่างกัน

**ยุคเครื่องจักรกล**

จะเป็นยุคที่เริ่มใช้ฟันเฟืองหลายชิ้นมาขบกันแล้วหมุนแทนการคำนวณตัวอย่างเช่น Calculating clock , Pascaline calculating , Leibniz Wheel , Difference engine โดยมีหลักคือใช้เฟืองคำนวณ

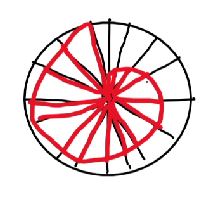
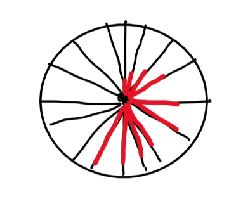
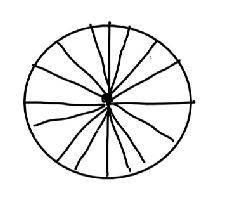


หากเฟืองหมุนไป 1 รอบ ส่วนข้างบนก็หมุนไปเท่ากัน



หากเฟืองไม่เท่ากัน ก็จะเป็นการคูณหาร (จากรูปภาพหากหมุนเฟืองเล็ก 2 รอบ เฟืองใหญ่ก็จะหมุน 1 รอบ จะได้ผลลัพธ์เท่ากับ ½ ของเฟืองเล็ก)

หรือเป็นลูกเบี้ยวก็ใช้หลักแบบนี้เหมือนกัน

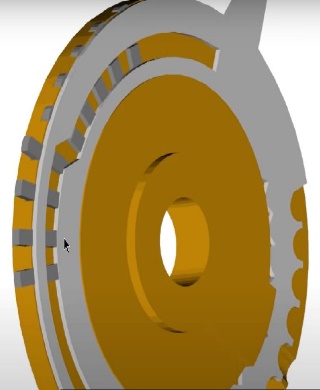
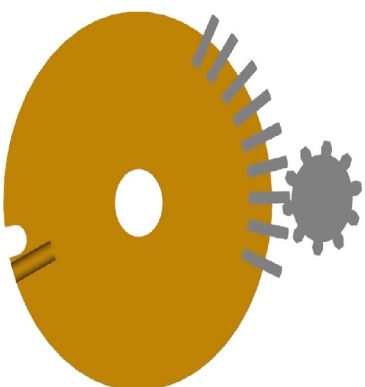
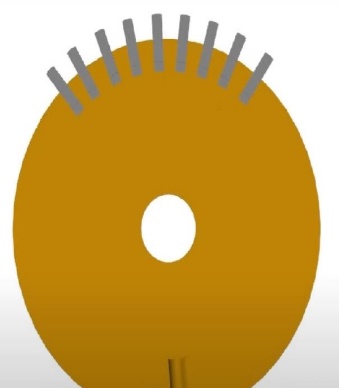
![รูปภาพประกอบด้วย ข้อความ

Description automatically 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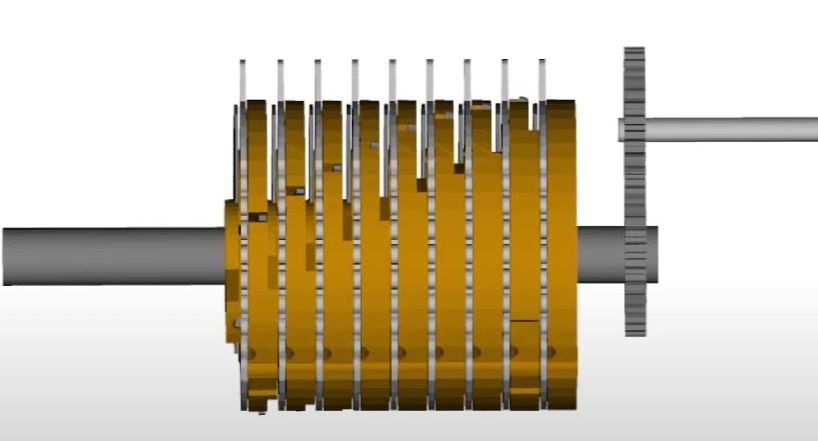
ลูกเบี้ยวจะถูกแบ่งออกเป็น 16 ส่วน แล้วก็วัดโดยขยับ 1 ส่วน , 2 ส่วน , 3 ส่วนจนถึง 16 ส่วน (ตามเส้นแดง) แล้วตัดเหล็กให้วนเป็นรูป แล้วใช่สปริงแท่งกดลงมา เมื่อหมุนเหล็กก็จะทำให้สปริงแท่งเลื่อนขึ้นลงได้แล้วก็จะได้เป็นfunction f(x) = ระยะทาง ตัวอย่างก็เช่น sin(x) cos(x)

ตัวอย่าง Leibniz Wheel

รูปภาพประกอบด้วย ในอาคาร

Description automatically generated

จะเห็นว่ามีแท่งทั้งหมด 9 แท่ง ทั้ง 9 แท่งจะถูกนำไปหมุนกับฟันเฟือง เมื่อหมุนผ่านฟันเฟืองจนหมดก็จะได้ 9 ซึ่งสามารถปรับได้ว่าจะให้มีกี่แท่ง

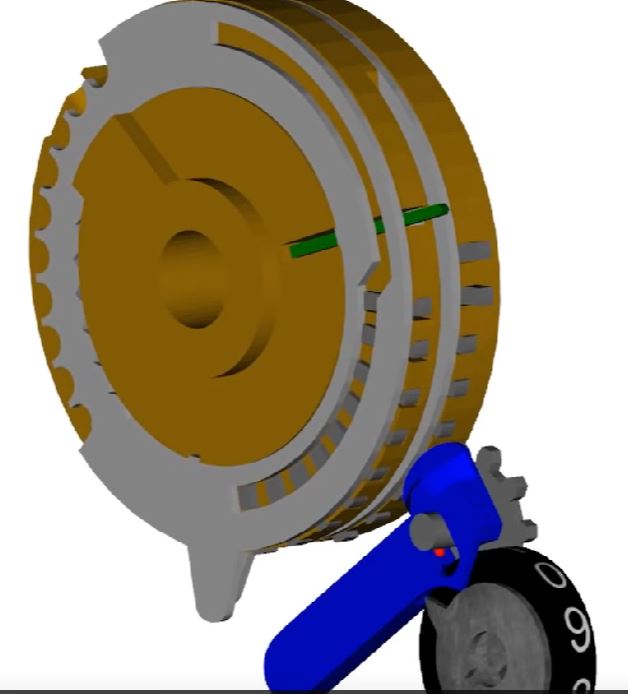


เมื่อจะบวกเลขก็ต้องใช้หลาย ๆ แท่งมาต่อกัน

![รูปภาพประกอบด้วย ข้อความ

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RE6RXhpZgAATU0AKgAAAAgABAE7AAIAAABBAAAISodpAAQAAAABAAAIjJydAAEAAAAuAAARBOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOC4iuC4suC4meC4meC4l+C4o+C5jCDguYDguKvguKXguLfguK3guIfguJvguKPguLDguYDguKrguKPguLTguJAAAAAFkAMAAgAAABQAABDakAQAAgAAABQAABDukpEAAgAAAAMxMQAAkpIAAgAAAAMxMQAA6hwABwAACAwAAAjOAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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P5YrYh+FxKg3GpBT3VI8/1oA89qxYzrbX0M8gyqNkj1r1G3+HOhqmJlmlb+95hFXU8DeHY/wDmHK3u0r/40AeezeLZWjURwjeHJLk8svZfpVaG/wBV1BmWC1+1AsSoMPmbT7ZHFetW+h6XaACCxgQAYGVz/OrsaRQj92EjH+yAKAPIotE8VTzedb2lzEwG0bcRAD2HFWU8F+Kbxj9q3JxjMtwG/kTXqvmKOjA/jTTMooA86tvhjfFx9rvoVjxyI8k/yrVtvhlpyOrTXdxKO6cAGuu8/HQCkM7fw8UAZMPgnQICpOnq5H/PRi2fwq7H4e0WLHl6VZAjkEwLkfjipzNIf4jSeY/qaALCQQRKBDGkf+6oFO81F6mqeSe9FAFrz0HfP4UhuR/CDVbNFAExnYnjH5Uhmcjrj6VFmlzQA7eT3NITnrzTc0ZoAdmjNNzRmgB2aM03NGaAHZozTc0ZoAdmjNNzRmgB2aM03NGaAHZozTc0ZoAdmjNNzRmgB2aM03NGaAHZrsvhvCG1ieY5ykW0fif/AK1cXmvQPhpCRHeTEEAkKDQB3+aM03PvRmgB2aKbmigD5UN4B0Qn3Jppv8f3R+NYbEleSTUbkheDQAmo3H2nUNw6DArr5mI0cf8AXJf5Vwo/14+tdldH/iVn/rmP5CgDz/W/+Qzcf739BVCr+tf8hef/AHh/IVQoAKKKKACiiigArpNN8Z3enaXFZC2t51gyYWlTJQk54/GubooAsX17PqN49zduXlc5JqvRRQACiiigAooooAKACelFSR/d/GgBmxvSjY3pU1FAEOxvSjY3pU1FAEOxvSjY3pU1FAEOxvSjY3pU1FAEOxvSjY3pU1FAEOxvSjY3pU1FAEOxvSjY3pU1FAEOxvSjY3pU1FAEOxvSjY3pU1FAEOxvSjY3pU1FAEOxvSuj8P6nHpt1byOSApBbrWFVqIcCgDrPE2tWV9qge2l3oqYDbSP5ipfDmu21szxzT7UPI+Rj/IVyL/fqay/11AHo58Q6PIcm82t6eU/+FR/8JHpan/j6/wDIb/4Vxkg4qNvu0AeixeK9HCjN3z/1zf8AwqdfFmi4/wCPz/yE/wDhXmS1IKAPTovFehjlr7/yC/8AhVXUvFukvAyw3mSf+mT/AOFee1FN0oAwLzMl9O68hpGIP41Dsb0qeT/WN9TSUAQ7G9KNjelTUUAQ7G9KNjelTUUAQ7G9KNjelTUUAQ7G9KNjelTUUAQ7G9KNjelTUUAQ7G9KNjelTVbgRSvKg/UUAZ2xvSnCGQ9EJ+ldDEihRhQPwqSgDn47CeTouPrWhZ6Cs+ftV/Faj3Rm/kK0KKACHwvpRb/SPECgf7Fo5/nV628N+F45M3OszTr/AHRbsmf0NUfWkNAHS21h4ItmypL/APXRZG/pWvBqvha2/wBQIEPqts2f/Qa4PtTTQB6OPFOjAcXmB7RP/hQfFmjf8/n/AJCf/CvNs0UAekHxZo3/AD9/+Qn/AMKb/wAJdpH/AD8/+Q3/AMK85ooA9FPi7Su1zj/tm/8AhTT4s0s/8vn/AJDf/CvPKKAPQf8AhKdL/wCfz/yG/wDhSf8ACT6T/wA/f/kN/wDCvP6KAO//AOEm0j/n6/8AIb/4Uv8Awk+kf8/X/kN/8K8/ooA9A/4SfSP+fr/yG/8AhR/wk+kf8/X/AJDf/CvP6KAPQP8AhJ9I/wCfr/yG/wDhR/wk+kf8/X/kN/8ACvP6KAPQP+En0j/n6/8AIb/4Uf8ACT6R/wA/X/kN/wDCvP6KAPQP+En0j/n6/wDIb/4Uf8JPpH/P1/5Df/CvP6KAPQP+En0j/n6/8hv/AIUf8JPpH/P1/wCQ3/wrz+igD0D/AISfSP8An6/8hv8A4Uf8JPpH/P1/5Df/AArz+igD0D/hJ9I/5+v/ACG/+FH/AAk+kf8AP1/5Df8Awrz+igD0D/hJ9I/5+v8AyG/+FH/CT6R/z9f+Q3/wrz+igD0D/hJ9I/5+v/Ib/wCFH/CT6R/z9f8AkN/8K8/ooA9A/wCEn0j/AJ+v/Ib/AOFH/CT6T/z9f+Q3/wAK8/ooA9A/4SfSf+fr/wAhv/hR/wAJPpP/AD9f+Q3/AMK8/ooA9A/4SfSf+fr/AMhv/hR/wk+k/wDP1/5Df/CvP6cv3hQB33/CT6T/AM/X/kN/8KP+Em0n/n6/8hv/AIVyMEaZ+6v5VeACqMAD6UAdEPEWmN924Y/SJ/8ACrEWr6dIBm7Cf70T/wDxNcselJQB3Nvc6DJn7Rr8MPp/o0zZ/wDHa7Pw34y8IaDYGBtdEzM24sLSYf8AsteJ0UAfQv8AwtDwh/0F/wDyWm/+Io/4Wh4Q/wCgv/5LTf8AxFfPVFAH0L/wtDwh/wBBf/yWm/8AiKK+eqKAP//Z)

ถ้าจะกำหนดเลข 27 ก็หมุนเลขไปตามนั้น (เลขข้างล่างขวาเป็นผลลัพธ์สะสม accumulator ส่วนเลขล่างซ้ายจะเป็น counter คือตัวนับสำหรับคูณเลข)

![รูปภาพประกอบด้วย ข้อความ

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RE6RXhpZgAATU0AKgAAAAgABAE7AAIAAABBAAAISodpAAQAAAABAAAIjJydAAEAAAAuAAARBOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOC4iuC4suC4meC4meC4l+C4o+C5jCDguYDguKvguKXguLfguK3guIfguJvguKPguLDguYDguKrguKPguLTguJAAAAAFkAMAAgAAABQAABDakAQAAgAAABQAABDukpEAAgAAAAM3MgAAkpIAAgAAAAM3MgAA6hwABwAACAwAAAjOAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMjAyMjowNjoyNyAxMzoxOTo1NgAyMDIyOjA2OjI3IDEzOjE5OjU2AAAACg4yDhkOGQ4XDiMOTA4gAEAOKw4lDjcOLQ4HDhsOIw4wDkAOKg4jDjQOEA4AAP/hC1NodHRwOi8vbnMuYWRvYmUuY29tL3hhcC8xLjAvADw/eHBhY2tldCBiZWdpbj0n77u/JyBpZD0nVzVNME1wQ2VoaUh6cmVTek5UY3prYzlkJz8+DQo8eDp4bXBtZXRhIHhtbG5zOng9ImFkb2JlOm5zOm1ldGEvIj48cmRmOlJERiB4bWxuczpyZGY9Imh0dHA6Ly93d3cudzMub3JnLzE5OTkvMDIvMjItcmRmLXN5bnRheC1ucyMiPjxyZGY6RGVzY3JpcHRpb24gcmRmOmFib3V0PSJ1dWlkOmZhZjViZGQ1LWJhM2QtMTFkYS1hZDMxLWQzM2Q3NTE4MmYxYiIgeG1sbnM6ZGM9Imh0dHA6Ly9wdXJsLm9yZy9kYy9lbGVtZW50cy8xLjEvIi8+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczp4bXA9Imh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8iPjx4bXA6Q3JlYXRlRGF0ZT4yMDIyLTA2LTI3VDEzOjE5OjU2LjcxNTwveG1wOkNyZWF0ZURhdGU+PC9yZGY6RGVzY3JpcHRpb24+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iPjxkYzpjcmVhdG9yPjxyZGY6U2VxIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpsaT7guIrguLLguJnguJnguJfguKPguYwg4LmA4Lir4Lil4Li34Lit4LiH4Lib4Lij4Liw4LmA4Liq4Lij4Li04LiQPC9yZGY6bGk+PC9yZGY6U2VxPg0KCQkJPC9kYzpjcmVhdG9yPjwvcmRmOkRlc2NyaXB0aW9uPjwvcmRmOlJERj48L3g6eG1wbWV0YT4NCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgPD94cGFja2V0IGVuZD0ndyc/Pv/bAEMABwUFBgUEBwYFBggHBwgKEQsKCQkKFQ8QDBEYFRoZGBUYFxseJyEbHSUdFxgiLiIlKCkrLCsaIC8zLyoyJyorKv/bAEMBBwgICgkKFAsLFCocGBwqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKv/AAB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จะมีตัวทดเลขอยู่ที่ฟันเฟืองด้วย (คือการเปลี่ยนหลักหลังจากเลข 9 กลายเป็น 0)

ต่อไปเป็นตัวอย่างของเครื่องควบคุมการยิงปืนเรือ

โดยมีปัจจัยที่เกี่ยวข้องเช่น ทิศทางลม , องศาปืน , ระยะห่างของเรือ , ความเร็วของเรือ , ตำแหน่งของเรือของทั้งเราและเป้าหมาย การยิงแม่นหรือไม่ก็ขึ้นอยู่กับ input ที่คนใส่เข้าไป

รูปภาพประกอบด้วย ในอาคาร, เครื่องยนต์, แผงควบคุม

Description automatically generatedรูปภาพประกอบด้วย ดิสก์เบรก, แผงควบคุม, อุปกรณ์

Description automatically generatedรูปภาพประกอบด้วย ในอาคาร, ผนัง, อุปกรณ์อิเล็กทรอนิกส์, เก่า

Description automatically generated

จะใช้คนสี่คนในการ input ข้อมูลโดยการหมุนเพลาเพื่อให้สามารถใส่ค่าเป็นทศนิยมได้ (ซึ่งอุปกรณ์ก่อนหน้านี้จะทำได้เฉพาะจำนวนเต็ม)

รูปภาพประกอบด้วย ในอาคาร, อุปกรณ์

Description automatically generatedรูปภาพประกอบด้วย ในอาคาร

Description automatically generated

การหมุนไปทางขวาก็จะเพิ่มค่า ทางซ้ายก็ลดค่า หมุนครบแต่ละรอบก็จะเพิ่มหรือลดค่า 10

รูปภาพประกอบด้วย อุปกรณ์

Description automatically generatedรูปภาพประกอบด้วย ในอาคาร, เครื่องโลหะ, อุปกรณ์

Description automatically generated

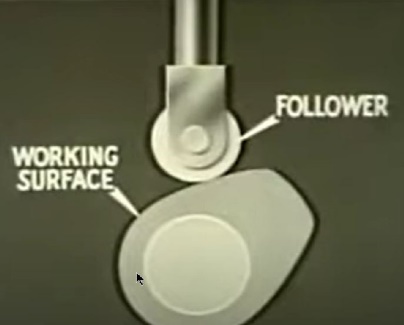
ฟันเฟืองจะถูกใช้เพื่อส่งค่าจากเพลาเป็นสัดส่วนตามขนาดของฟันเฟือง

ต่อไปจะเป็น CAMS

เครื่องมือนี้สามารถคำนวณให้เป็น function ได้

รูปภาพประกอบด้วย เครื่องโลหะ, อุปกรณ์

Description automatically generatedรูปภาพประกอบด้วย ในอาคาร

Description automatically generated

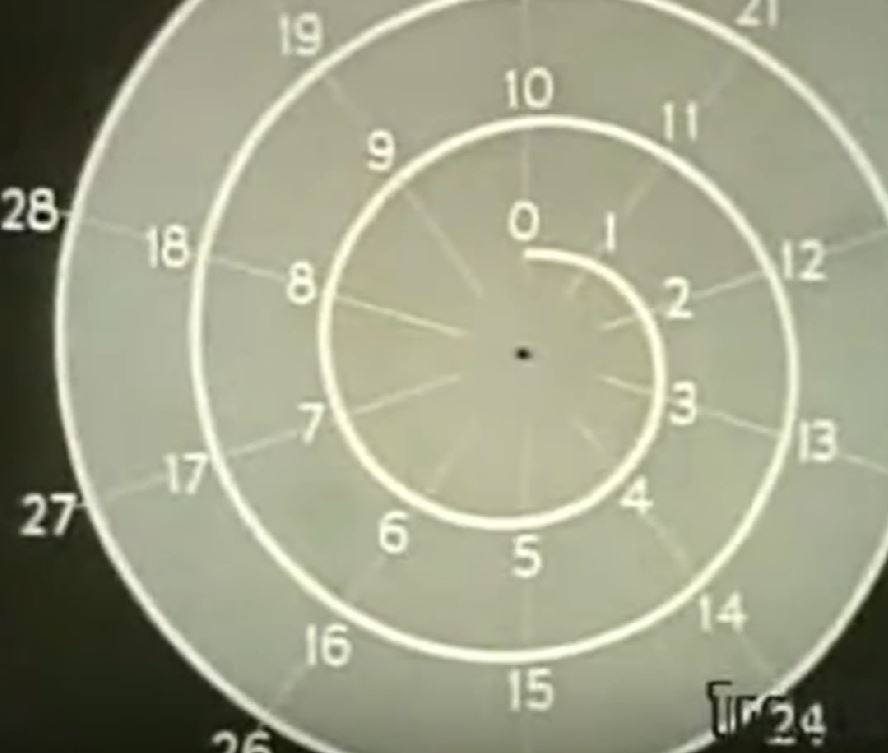
ส่วนบน (follower) สามารถขยับขึ้นลงได้และส่วนล่าง (working surface) สามารถหมุนและเปลี่ยนรูปร่างได้

รูปภาพประกอบด้วย ข้อความ

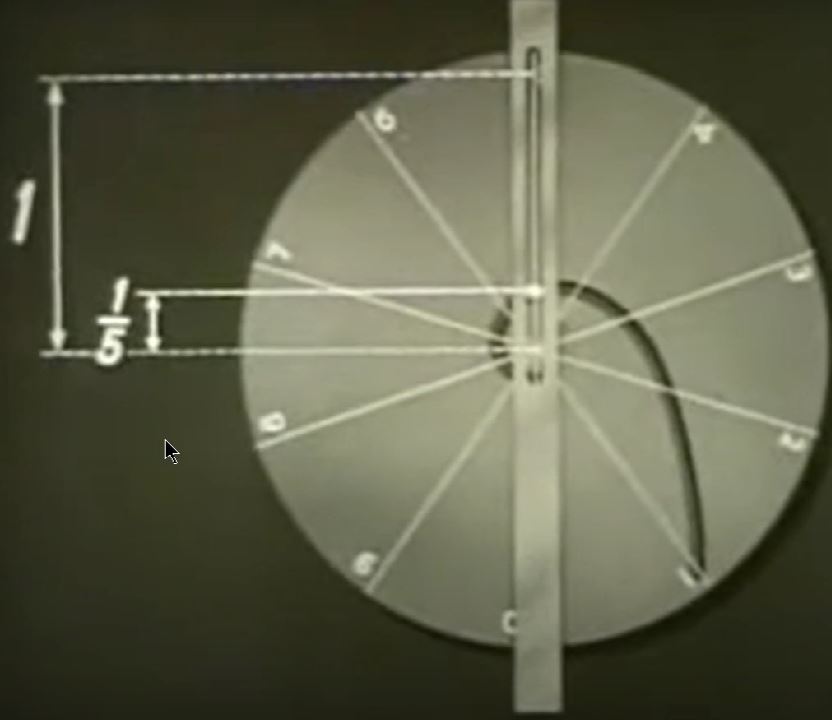
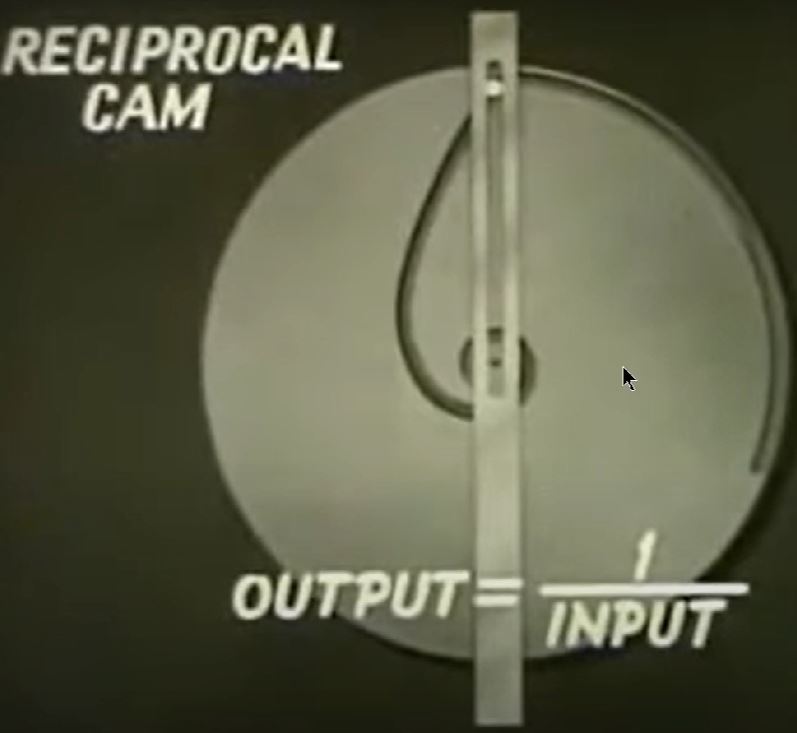
Description automatically generatedรูปภาพประกอบด้วย ข้อความ, อุปกรณ์

Description automatically generated

ส่วน working surface จะถูกแบ่งเป็น 10 ส่วน ถ้าต้องการให้ follower ได้มี function อย่างไรก็ต้องเปลี่ยนรูปแบบของ working surface ให้เป็นไปตามนั้น

![รูปภาพประกอบด้วย ข้อความ

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RE6RXhpZgAATU0AKgAAAAgABAE7AAIAAABBAAAISodpAAQAAAABAAAIjJydAAEAAAAuAAARBOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOC4iuC4suC4meC4meC4l+C4o+C5jCDguYDguKvguKXguLfguK3guIfguJvguKPguLDguYDguKrguKPguLTguJAAAAAFkAMAAgAAABQAABDakAQAAgAAABQAABDukpEAAgAAAAMxOQAAkpIAAgAAAAMxOQAA6hwABwAACAwAAAjOAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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ข้อความ

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![รูปภาพประกอบด้วย ข้อความ, เครื่องโลหะ, อุปกรณ์

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RE6RXhpZgAATU0AKgAAAAgABAE7AAIAAABBAAAISodpAAQAAAABAAAIjJydAAEAAAAuAAARBOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOC4iuC4suC4meC4meC4l+C4o+C5jCDguYDguKvguKXguLfguK3guIfguJvguKPguLDguYDguKrguKPguLTguJAAAAAFkAMAAgAAABQAABDakAQAAgAAABQAABDukpEAAgAAAAM3MgAAkpIAAgAAAAM3MgAA6hwABwAACAwAAAjOAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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![รูปภาพประกอบด้วย ข้อความ

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0oAcBmlxSCnUhigUopBTu1ABTlFIKctAC0uKSloELRRSUDP//Z)![รูปภาพประกอบด้วย ข้อความ

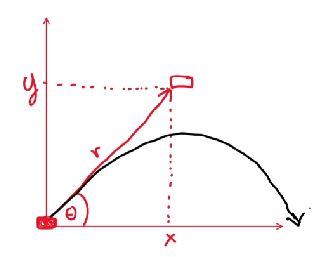
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เครื่องนี้จะสามารถเปลี่ยนพารามิเตอร์ของ CAMS ได้ (ซึ่งจะถูกใช้ในการเล็งยิงเครื่องบินของศัตรู)

![รูปภาพประกอบด้วย ข้อความ, อุปกรณ์

Description automatically 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ข้อความ

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หากจะยิงเครื่องบินก็จะต้องยิงดักหน้าทางที่เครื่องบิน (คือยิงสูงกว่ามุมองศาที่วัดระหว่างเรือกับเครื่องบิน) กำลังมุ่งไปไม่ใช่ยิงตามมุมองศาที่คำนวณได้ ยิ่งเครื่องบินอยู่ไกลก็ต้องยกยิงให้สูงขึ้นอีกเพราะมีเรื่อง projectile เข้ามาเกี่ยวด้วย ทั้งหมดนี้เป็นการ predict หรือทำนายอนาคตโดยใช้ บวก , ลบ , คูณ , หาร , square root , arctan , sin , cos , tan

เครื่องมือสำหรับวัดองศาเพื่อยิงเครื่องบินนี้เป็น specific purpose machine คือเป็นคอมพิวเตอร์เฉพาะเจาะจงใช้กับการยิงเครื่องบินเท่านั้น เอาไปคำนวณอย่างอื่นไม่ได้

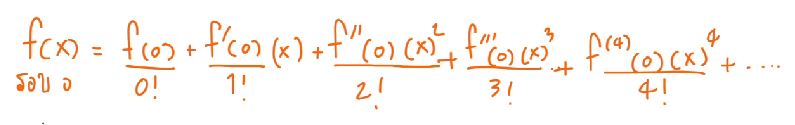
ต่อมามีบุคคลหนึ่งที่มีชื่อว่า Charles Babbage (นักคณิตศาสตร์ชาวอังกฤษ) มีความคิดที่จะสร้างคอมพิวเตอร์ที่เป็น general purpose machine คือใช้คำนวณได้ทุกอย่างในโลกโดยที่ไม่ต้องเปลี่ยน hardware เช่นใช้ตัดต่อวิดิโอ ใช้ดูหนัง ใช้ทำงานส่งครูได้ในเครื่องเดียวกัน วิธีการสร้าง general purpose machine ก็จะต้องมี general purpose function โดยที่ general purpose function ก็มาจาก machine learning เพื่อทำนายอนาคต

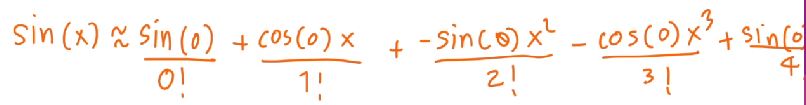
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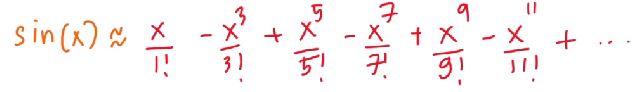
Description automatically 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ให้เราใส่ข้อมูลเข้าไปแล้วให้คอมพิวเตอร์สร้าง function ขึ้นมา ดูจากตัวอย่างเช่น

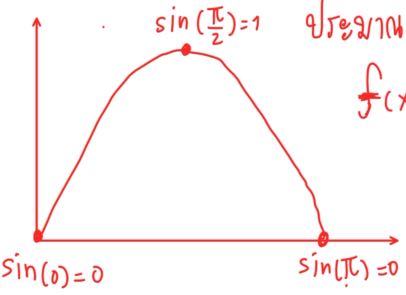
Sin(x) มาจาก Taylor’s series







ผลลัพธ์ที่ออกมาจะเป็น polynomial (พหุนาม) ซึ่งก็ยังไม่เป็น general purpose อยู่ดี (เพราะ 11! มีค่าเยอะมาก) จะเห็นว่าหากให้เป็นดีกรี 2 ก็จะได้ ax2+bx+c ซึ่งเป็นพาราโบล่านั่นเอง



สมการที่ 1 จาก sin(0) = 0 ลองแทนค่า x ด้วย 0 จะได้ a(0)2+b(0)+c ผลลัพธ์ได้ 0

สมการที่ 2 จาก sin(π/2) = 1 จะได้ a(π/2) 2+b(π/2)+c ผลลัพธ์ได้ 1

สมการที่ 3 จาก sin(π) = 0 จะได้ a(π) 2+b(π)+c ผลลัพธ์ได้ 0

จากทั้งสามสมการจะได้สูตร b = -a π

เอา b = -a π ไปแทนค่าในสมการที่ 2 จะได้

a(π) 2/4 - a(π) 2/4 = 1

a = -4 / (π) 2

b = 4/ π

c = 0

sin(x) = -4(x 2) / (π) 2 +4x/ π + 0

วิธีคำนวณแบบนี้อาจจะไม่ใช่วิธีที่ดีที่สุดแต่ใกล้เคียงที่สุดเท่าที่มนุษย์ทำได้และมี error เกิดน้อยที่สุด (Minimize square error)

สรุปแล้วถ้าจะสร้าง machine ขึ้นมาแล้วให้ machine ประมาณ polynomial ได้ก็จะได้ general purpose machine วิธีการที่ Charles Babbage คิดก็คือให้มี function หรือ f(x)

![รูปภาพประกอบด้วย ข้อความ, ไวท์บอร์ด

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RE6RXhpZgAATU0AKgAAAAgABAE7AAIAAABBAAAISodpAAQAAAABAAAIjJydAAEAAAAuAAARBOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOC4iuC4suC4meC4meC4l+C4o+C5jCDguYDguKvguKXguLfguK3guIfguJvguKPguLDguYDguKrguKPguLTguJAAAAAFkAMAAgAAABQAABDakAQAAgAAABQAABDukpEAAgAAAAM5MgAAkpIAAgAAAAM5MgAA6hwABwAACAwAAAjOAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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ข้อความ, ไวท์บอร์ด

Description automatically 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ข้อความ, ไวท์บอร์ด

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RE6RXhpZgAATU0AKgAAAAgABAE7AAIAAABBAAAISodpAAQAAAABAAAIjJydAAEAAAAuAAARBOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOC4iuC4suC4meC4meC4l+C4o+C5jCDguYDguKvguKXguLfguK3guIfguJvguKPguLDguYDguKrguKPguLTguJAAAAAFkAMAAgAAABQAABDakAQAAgAAABQAABDukpEAAgAAAAM2NAAAkpIAAgAAAAM2NAAA6hwABwAACAwAAAjOAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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จะเห็นว่าค่า Delta (ตัวอักษรสามเหลี่ยม) ไม่เท่ากันแต่ถ้าแบ่ง Delta เป็นหลาย ๆ ชั้นก็จะเท่ากันได้ polynomial ต้องทำหลาย ๆ ครั้งถึงจะได้ค่าคงที่ (หรือเป็นการดิฟอินทิเกรต) แต่คุณ Charles Babbage จะเปลี่ยนให้บวกในแต่ละชั้นแทน

![รูปภาพประกอบด้วย ข้อความ, ไวท์บอร์ด

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RE6RXhpZgAATU0AKgAAAAgABAE7AAIAAABBAAAISodpAAQAAAABAAAIjJydAAEAAAAuAAARBOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOC4iuC4suC4meC4meC4l+C4o+C5jCDguYDguKvguKXguLfguK3guIfguJvguKPguLDguYDguKrguKPguLTguJAAAAAFkAMAAgAAABQAABDakAQAAgAAABQAABDukpEAAgAAAAM4OQAAkpIAAgAAAAM4OQAA6hwABwAACAwAAAjOAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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P/ACNT7LZTahHfCKJ7qONokmH3ghIJGfTIFWq5eX4b+EpeuiW6/wC4WX+RqlL8KPDbNutRe2TdjbXTAj8807z7fj/wCeXCv/l5L/wFf/JFrxT4V1DxRq1pFcamsWgxbJJ7JY/muHVicM390jHH6d66mKNIYkjiRURFCqqjAUDoBXH/APCuVRNsHivxPEB0VdS4H/jtRN4A1JP+PXxrrynt51x5lPnna1jWXsqkIw9rotvda/K525rkPhnpN5pHhERanA0FzJcSyOjkZGW4zj2FUz4N8Wp/qfHFyR28y3B/rSf8It46X7njNT/vWw/wqG3e9n+BcKUFSlTVaNpW/m6X8vM7yiuC/wCEd+ISfc8W2r+z2w/+Jpyad8S4ums6LL/vxOM/ktPnf8rI+owe1aH3v/I7uiuHx8To+/huUf8AbYZ/lSNqPxJh+9omj3P/AFyuCv8A6E1HtPJh/Z7e1WH/AIF/mS+IPAV1q3ig63p3iK60qWSAW8ghjDEoDnCtkbc47d6vaR4C0bTLyLULhJtS1OMf8ft7M0r59QGJA/AVjN4s8c2//Hx4LEg7+Rc7j/WpIvHutLj7V4J1kHv5UO6q9tpb9DolDG+zVNTVlppKO3yd38zobbw1b23jG88QpK5nu7ZLdoyPlAU5yPyH5VtVxX/Cw7gff8G+Jh9LDP8AWnf8LHVRmTwp4nQdydO4/wDQqXtInJLCYqdrq/zX+Z2dFcO3xX0WJsXen6xa/wDXayI/kTU0PxW8JSnDag8J9JYHX+lHtIdyfqGL6U39zKvxKL3l54c0dBkXl8ZWz6RgE/zrvBwK5RvG/gq7nhuJdV095oMmKSQDdHkYOCRkZHXFWx488LH/AJj9h+M4pKUbt3NqlHEypQpeyl7t+j3b/wCGOgorB/4Tnwv/ANB/T/8AwIWl/wCE38L/APQwad/4Er/jVc8e5y/VMT/z7l9zNTUdOtdW06ex1CFZ7a4QpJG3cfUcj6ivMviF4Fs9J8F3l3p+oanHDAiotm15I8TFpEVchieACePp6V3Q8a+GD08QaZ/4FJ/jUV54j8I6laNbX2s6TPA5UtG90hBKkMO/YgH8KqNRJ7nVhli8PNNRkldNpJkXh3wTomkG1v4LV2vlhUCeaeSQqSuDgMxA4J6eprpqxh4u8NgDGvaYB/19x/40h8ZeGlHPiDTP/AtP8aTmm9WY1aeLrT5pxk35pm1RXOzfEDwpAMvrtm3/AFzk3fyrLPxW0GWXy9NtdU1J+wtLMtn8yKn2kO4lgcU9fZy+5l/4g/8AIqgD7xvbUL7nz0rpIf8AUJnrtH8q4FF1zxx4k064vNLuNJ0TTZ/tHl3eY5bhwMplOmAw/ImvQQMDApR1bZeIj7KjCi3rq3bW17aeugUUUVocAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFGM9aKKAImtoG+9Eh+qiozp1k33rSE/wDABVmigfMymdJ089bK3P8A2zFIdF0w9bC2/wC/Qq7RQPnl3M5vD+jv97S7Q/WFf8Khbwp4ff7+jWJ+sC/4Vr0UrIpVJraTMT/hC/De7P8AYdjn/riKlj8K6BEwMejWKkdCIF/wrWooshutVe8n95BDY2tuAILeKMD+6gFT0UUzNtvcKKKKBBRRRQAUUUUAf//Z)

ซึ่งการบวกในชั้น polynomial จะทำให้เกิดการประมาณ function ใด ๆ ได้

และมีการออกแบบต่าง ๆ เพิ่มเติมอีก

1. Input device >> บัตรเจาะรู (เอามาจากความคิดของ Jacguard อีกที ซึ่ง Jacguard เป็นผู้ปรับรูปแบบเครื่องทอผ้าให้เปลี่ยนลักษณะของลายผ้าได้โดยใช้บัตรเจาะรู)
2. Arithmetic processor >> polynomial
3. Memory state >> การจำสถานะว่าเฟืองแต่ละชิ้นอยู่ตำแหน่งไหน แต่ละข้ออยู่ที่ไหน
4. Control unit >> การเพิ่มการเป็นอัตโนมัติมากขึ้นคือเมื่อมีการ input เข้าไปแล้วก็จะ output ออกมาได้เลยโดยที่ไม่ต้องทำอะไรอีกแล้ว

แต่ว่าสมัยนั้นไม่มีการสร้างคอมพิวเตอร์ขึ้นจริงตามแนวคิดของ Charles เพราะต้นทุนสูงมากเกินไปและดูล้ำยุคจนคนสมัยนั้นไม่เข้าใจและต่อต้านอีกด้วย แต่ต่อมาแนวคิดนี้ก็ถูกเอาไปพิสูจน์ทางคณิตศาสตร์ในยุคต่อมา (Turing complete หมายถึงมีความสมบูรณ์ในเชิงว่าเป็นเครื่อง Turing หรือไม่ และชื่อ Turing มาจาก Alan Mathison Turing ดังที่กล่าวมาแล้วข้างบน)

แต่ก็ยังมีคนที่เห็นด้วยกับ Charles คือ Ada Lovelace (ซึ่งเป็นโปรแกรมเมอร์คนแรกของโลก) โดย Ada ได้ลองเขียน Algorithm ให้เข้ากับแนวคิดของ Charles แล้วเอาไปเผยแพร่กับ Taylor’s scientific

**ยุคเครื่องจักรกลระบบอิเล็กทรอนิกส์**

จะเป็นยุคที่ผสมระหว่างไฟฟ้ากับอิเล็กทรอนิกส์โดยมีเครื่องแรกคือ tabulating machine ตั้งอยู่ที่สำนักงานสถิติแห่งชาติสหรัฐอเมริกา (ในสมัยนั้นคนเริ่มรู้จักคอมพิวเตอร์บ้างแล้ว) โดยผู้ที่สร้าง tabulating machine คือ Herman Hollerith ซึ่งต่อมาเขาก็ลาออกมาก่อตั้งบริษัท Computing and tubulin recording company ต่อมาบริษัทนี้ก็ได้ร่วมทุนกับบริษัทอื่นและเปลี่ยนชื่ออีกหลายครั้งและสุดท้ายก็กลายมาเป็น IBM (International business machine)

![รูปภาพประกอบด้วย พื้น, ผนัง, ในอาคาร, ไม้

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RE6RXhpZgAATU0AKgAAAAgABAE7AAIAAABBAAAISodpAAQAAAABAAAIjJydAAEAAAAuAAARBOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOC4iuC4suC4meC4meC4l+C4o+C5jCDguYDguKvguKXguLfguK3guIfguJvguKPguLDguYDguKrguKPguLTguJAAAAAFkAMAAgAAABQAABDakAQAAgAAABQAABDukpEAAgAAAAMxMwAAkpIAAgAAAAMxMwAA6hwABwAACAwAAAjOAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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และมีอีกเครื่องหนึ่งเรียกว่า Colossus โดยผู้ที่สร้างขึ้นก็คือ Alan turing ซึ่งเป็นผู้ที่เคยถอดรหัส Enigma ของฝ่ายเยอรมันในสงครามโลกครั้งที่ 2 ได้ โดยการทดลองไปเรื่อย ๆ ทำให้รัฐบาลของประเทศต่าง ๆ เห็นศักยภาพของคอมพิวเตอร์ แล้วเริ่มแข่งกันสร้างคอมพิวเตอร์ เครื่อง Colossus เกิดขึ้นจากแนวคิดนี้ซึ่งเครื่อง Colossus นี้ได้เป็นต้นแบบของการสร้างระเบิดนิวเคลียร์ด้วยแต่สงครามโลกจบก่อน

![รูปภาพประกอบด้วย ข้อความ, คอมพิวเตอร์

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**ยุคเครื่องอิเล็กทรอนิกส์**

เป็นยุคที่ใช้ไฟฟ้าอย่างเดียวและทำให้รวดเร็วขึ้นโดยเปลี่ยนจากระบบหมุนเฟืองเป็นระบบหลอดสุญญากาศที่มีการเปิดปิดได้อัตโนมัติ ผู้ที่ออกแบบคนแรกคือ john w mosley แต่หลอดสุญญากาศก็มีความร้อนสูงมากและในคอมพิวเตอร์ก็ต้องใช้หลอดสุญญากาศจำนวนมาก (เช่นเครื่อง ENIAC ต้องใช้ 18,000+ หลอด) ทำให้คอมพิวเตอร์มีขนาดที่ใหญ่จนต้องถูกตั้งอยู่ในห้องที่มีระบบระบายอากาศรองรับ

ต่อมาก็จะมีเครื่อง EDSAC ถูกคิดค้นขึ้นโดย John von Neumann นักคณิตศาสตร์ชาวฮังการีที่ย้ายมาที่สหรัฐอเมริกาเพื่อมาคิดค้นระเบิดนิวเคลียร์ในโครงการแมนฮัตตันแต่เนื่องจากสงครามจบลงก่อนก็เลยเอาเครื่องจักรที่คิดค้นไว้มาขายแทนแล้ว Neumann machine ก็กลายเป็นแนวคิดของคอมพิวเตอร์ที่ใช้มาจนถึงวันนี้

เนื่องจากคอมพิวเตอร์ในยุคนี้มีหลอดสุญญากาศที่เยอะมากจึงทำให้แมลงบินมาเกาะจำนวนมากและนี่ก็เป็นที่มาของคำว่า “bug” ที่ใช้กันมาถึงวันนี้แต่ในสมัยนั้นคำว่า bug คือแมลงจริง ๆ และวิธีแก้ bug ในสมัยนั้นก็คือคีบแมลงออก

**ยุคทรานซิสเตอร์**

คอมพิวเตอร์ในยุคนี้จะเปลี่ยนมาใช้แผงวงจรรวม (IC) โดยมี gordon moore ที่เป็นหนึ่งในผู้ก่อตั้ง Intel (และเป็นผู้คิดกฎของ moore) คิดค้นขึ้นและเขาได้ predict ว่าทุก ๆ 18 เดือน มนุษย์จะสามารถผลิตคอมพิวเตอร์ที่มีทรานซิสเตอร์เพิ่มขึ้น 2 เท่า (จนถึงวันนี้คอมพิวเตอร์มีทรานซิสเตอร์ 3.4 พันล้านตัว)

![รูปภาพประกอบด้วย อุปกรณ์อิเล็กทรอนิกส์, วงจร

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นอกจากนี้จะมีการเชื่อมต่อคอมพิวเตอร์หลาย ๆ เครื่องเข้าด้วยกันเป็นเครือข่าย (Network) เพื่อให้ส่งข้อมูลกันได้โดยแบ่งเป็น Local area network (LAN) กับ Wide area network (WAN)

คอมพิวเตอร์แบ่งได้ตามลักษณะการใช้งานทั่วไปคือ General purpose computer ซึ่งคอมพิวเตอร์ที่ใช้กันทั่วไปเป็นแบบนี้กับ Special purpose computer ที่ใช้งานเฉพาะกลุ่มเช่นคอมพิวเตอร์ที่ใช้ควบคุมระบบการผลิตของโรงงาน

หรือแบ่งได้ตามความสามารถและขนาดคือ

* Supercomputer จะมีขนาดใหญ่โดยจะมีคำว่า FLOPS ย่อมาจาก floating point operation per second (การดำเนินการกับทศนิยมต่อวินาที เช่นบวกทศนิยมกี่ครั้งต่อ 1 วินาที) ที่สามารถคำนวณทศนิยมได้ 17.59 PETAFLOPS (17.59\*1015 ต่อวินาที)
* Mainframe ที่มีขนาดเล็กลงมา สามารถใช้ทำงานได้หลาย ๆ อย่างพร้อมกัน ใช้กับธุรกิจที่มีสาขาเยอะ ๆ
* Microcomputer คือคอมพิวเตอร์ notebook ทั่วไป
* Handheldcomputer คือโทรศัพท์มือถือทั่วไป
* Tablet
* Smartphone

หรือแบ่งได้ตามรูปลักษณ์อื่น ๆ

* Google glass
* Smart watch
* Smart TV

ทิศทางของคอมพิวเตอร์ยุคใหม่จะเป็น

* ระบบผู้เชี่ยวชาญ (Expert system) ที่สามารถเก็บความรู้ต่าง ๆ ไว้ในคอมพิวเตอร์แล้วให้นำมาใช้งานแทนสมองมนุษย์ เวลาที่มีปัญหาก็มาถามคอมพิวเตอร์แทนการเปิดหนังสือหรือถามคนอื่น
* ระบบหุ่นยนต์ (Robotic) ตอนนี้โรงงานใช้หุ่นยนต์ผลิตทั้งหมดแม้แต่ผลิตหุ่นยนต์ด้วยกันเองหรือแม้แต่การเรียนการสอนก็จะใช้ครู AI แทน
* ภาษาธรรมชาติ (Natural Language) เป็นการพูดภาษาไทยแล้วคอมพิวเตอร์เข้าใจเช่น SIRI , CORTANA

จาก Client server สู่ Cloud server กับ Internet of thing (เครื่องซักผ้าที่ต่อ internet ได้ ส้วมที่ต่อ internet ได้)

ประโยชน์ของคอมพิวเตอร์กระจายอยู่ในหลายวงการเช่น ระบบจำหน้าได้ , ระบบธุรกิจ , ระบบบังคับเครื่องบินอัตโนมัติ , ระบบวิเคราะห์ลูกค้าในการขายสินค้าหน้าร้าน , ระบบการสมัครงานเข้าโรงเรียน มหาวิทยาลัย , ระบบตรวจสุขภาพ , ระบบคัดเลือกผู้สมัคร จะเห็นว่า AI เริ่มมีบทบาทต่อชีวิตมนุษย์มากขึ้นและจะมากขึ้นอีกในอนาคต

**องค์ประกอบของคอมพิวเตอร์**

Hardware จะประกอบด้วย อุปกรณ์นำเข้า (mouse , keyboard , microphone , scanner) , อุปกรณ์ประมวลผล (CPU หรือ central processing unit, RAM หรือ random access memory, GPU หรือ graphic processing unit) , อุปกรณ์แสดงผล (เช่นจอภาพ) , อุปกรณ์บันทึกข้อมูล (เช่น HD , SSD)

Software แบ่งได้หลายอย่างคือ system software กับ application software

* System software เป็น software ที่ใช้ควบคุมการทำงานของเครื่องเช่น OS (operating system เช่น window , android , IOS , MacOS , Linux)
* Application software เป็น software ที่ลงเข้าเครื่องหลัง OS (Microsoft word , excel)

Peopleware

อาจเป็น End user มีความสำคัญกับระบบงานมากเพราะเกี่ยวข้องกับระบบงานโดยตรงแต่ End user อาจจะไม่เข้าใจในคอมพิวเตอร์แล้วใส่ข้อมูลแปลกประหลาดเข้ามาหรือติดตั้งโปรแกรมไม่เป็น โปรแกรมเมอร์จึงต้องทำให้ End user ใช้งานง่ายที่สุด

อาจเป็นผู้เชี่ยวชาญที่เป็น operator หรือ technician มีหน้าที่แก้ปัญหาที่เกิดจากคอมพิวเตอร์

อาจเป็น system analysis นักวิเคราะห์ระบบเปรียบได้กับสถาปนิกที่ออกแบบบ้าน (แล้วให้วิศวกรไปสร้างบ้านต่อ) ต้องรู้เรื่องการเขียนโปรแกรมและธุรกิจ

อาจเป็น software development หรือโปรแกรมเมอร์ที่แยกออกเป็นอีกหลายสายเช่น web app system แต่ในตอนนี้ก็แยกไม่ออกแล้วเพราะโปรแกรมเมอร์ต้องเขียนเป็นในหลายส่วนด้วย (เช่นคน ๆ หนึ่งเป็น programmer ในงานหนึ่งแล้วก็ต้องไปเป็น software engineer ในอีกงานหนึ่งแล้วก็ต้องไปเป็น system analysis ในอีกงานหนึ่ง)

อาจเป็น software engineer ที่ทำเรื่อง verification คือทดสอบว่าโปรแกรมที่เขียนขึ้นใช้ได้หรือไม่ testing โปรแกรม วางแผนการใช้งาน

อาจเป็น network engineer หรือ infrastructure engineer เป็นคนที่นำ hardware ไปขึ้นระบบ

อาจเป็นผู้บริหารที่มีความรู้ด้านคอมพิวเตอร์และธุรกิจ

เดิมทีในสมัยก่อนการจัดโครงสร้างองค์กรก็จะเป็นแบบลำดับชั้นแต่ในตอนนี้บริษัท IT หลายบริษัทเปลี่ยนโครงสร้างเป็นระดับเดียวกันหมดแล้ว (หรือเป็นการหมุนเวียนเปลี่ยนหัวหน้าตาม project ที่รับผิดชอบซึ่งทำให้ตำแหน่งและความรับผิดชอบเปลี่ยนตามไปด้วย)

![รูปภาพประกอบด้วย ไวท์บอร์ด

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RE6RXhpZgAATU0AKgAAAAgABAE7AAIAAABBAAAISodpAAQAAAABAAAIjJydAAEAAAAuAAARBOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOC4iuC4suC4meC4meC4l+C4o+C5jCDguYDguKvguKXguLfguK3guIfguJvguKPguLDguYDguKrguKPguLTguJAAAAAFkAMAAgAAABQAABDakAQAAgAAABQAABDukpEAAgAAAAM4MgAAkpIAAgAAAAM4MgAA6hwABwAACAwAAAjOAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Data จะถูกนำเข้าคอมพิวเตอร์ไปผ่าน algorithm ของคอมพิวเตอร์แล้วออกมาเป็น data ใหม่ที่มีคุณค่ามากขึ้นเช่นเอาข้อมูลลูกค้าไปใส่คอมพิวเตอร์แล้วเอา output ออกมาวิเคราะห์ว่าจะโฆษณาอะไรเป็นหลัก (ดูว่าลูกค้าเข้ามาในร้านแล้วซื้ออะไรเยอะ ๆ บ่อย ๆ) ถ้า hardware เสียก็ซ่อมหรือซื้อใหม่ ถ้า software เสียก็จ้างโปรแกรมเมอร์เขียนใหม่หรือลงใหม่ ถ้าคนทำงานไม่ได้เรื่องก็เปลี่ยนคนแต่ถ้าข้อมูลหาย จะเป็นสิ่งที่ยากมากที่สุดในการหาแทน

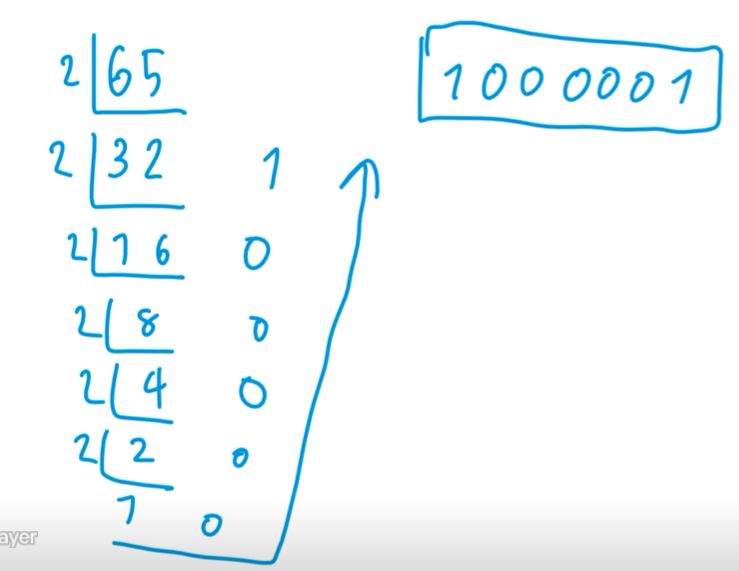
ข้อมูลที่อยู่ในคอมพิวเตอร์(ซึ่งในสมัยนี้เป็น digital ทั้งหมดแล้ว)ทั้งหมดจะเป็นเลขฐานสองคือ binary คือ 1,True หรือ 0,False แต่สิ่งที่มนุษย์เห็นจะเป็นข้อความ ตัวเลข รูปภาพ เสียง วิดิโอ

สำหรับข้อความ (text) จะมีสิ่งที่เรียกว่า encoding เช่น ASCII ย่อมาจาก American standard for international interexchange ซึ่งจะเป็นตารางบอกความหมายของรหัส

![รูปภาพประกอบด้วย โต๊ะ

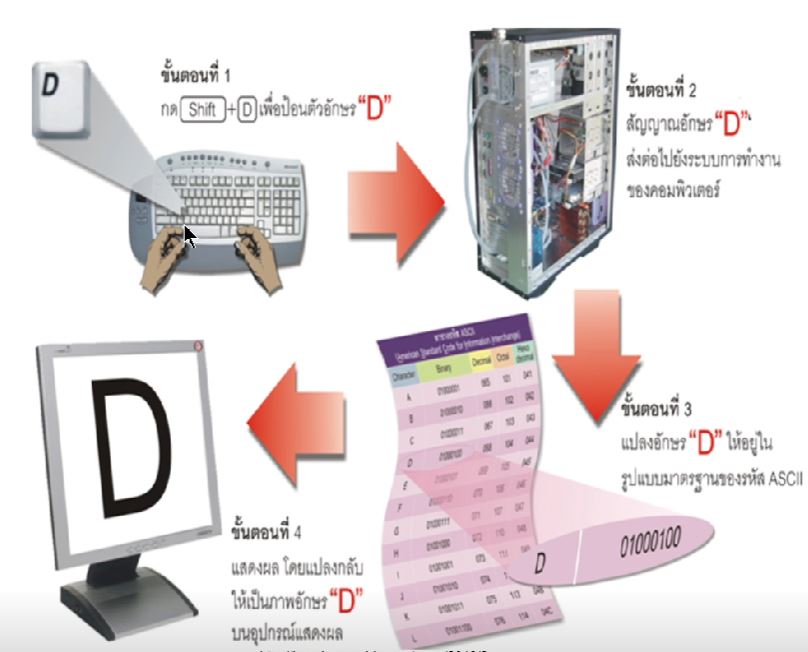
Description automatically 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ตัวอักษร A จะถูกเปลี่ยนเป็นเลขฐานสิบคือ 65 แล้วจากเลขฐานสิบจะถูกเปลี่ยนเป็นเลขฐานสองอีกครั้งโดยการหาร 2 ซึ่งจะได้ 32 เศษ 1 และเอาเฉพาะจำนวนเต็มมาหาร 2 อีกจะได้ 16 , 8 , 4 , 2 , 1 แล้วเอาเฉพาะเศษจากการหารในแต่ละครั้งมาเรียงต่อกันจากหลังมาหน้าก็ได้เป็น 1000001



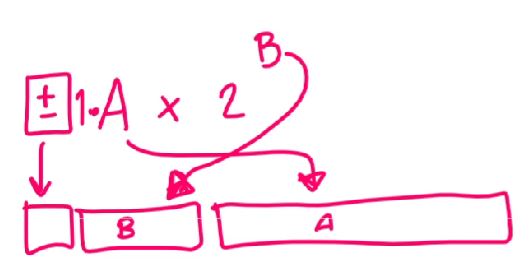
แต่ในสมัยนี้จาก ASCII เปลี่ยนเป็น UTF ซึ่ง UTF ก็เป็น Unicode แบบหนึ่งที่สามารถเก็บตัวอักษรภาษาแปลก ๆ ได้ (เช่นภาษาไทย ภาษาจีน ภาษาอื่น ๆ เกือบทุกชาติในโลก) ในตอนนี้แนะนำให้ใช้ UTF-8 ทั้งหมด

เมื่อกด keyboard ก็จะเกิดขั้นตอนดังนี้



เวลาที่กดตัว D จะไม่มี D เข้าไปในคอมพิวเตอร์แต่จะมีเลขฐานสองเข้าไปแทน

สำหรับตัวเลขจะแยกเป็นจำนวนเต็ม (integer) กับจำนวนทศนิยม (floating point) ซึ่งมีมาตรฐานการเก็บ (เหมือนกับตัวอักษร) คือ IEEE754 สมมติว่าถ้าจะเก็บ 3.14 เข้าไปในคอมพิวเตอร์ก็ต้องแปลง 3.14 ให้เป็นเลขฐานสองจะได้ประมาณ 0.010011… แล้วก็จะเก็บเป็นรูปแบบ A กับ B



รูปแบบจะคล้าย ๆ กับ 0.7\*105 = 7\*104

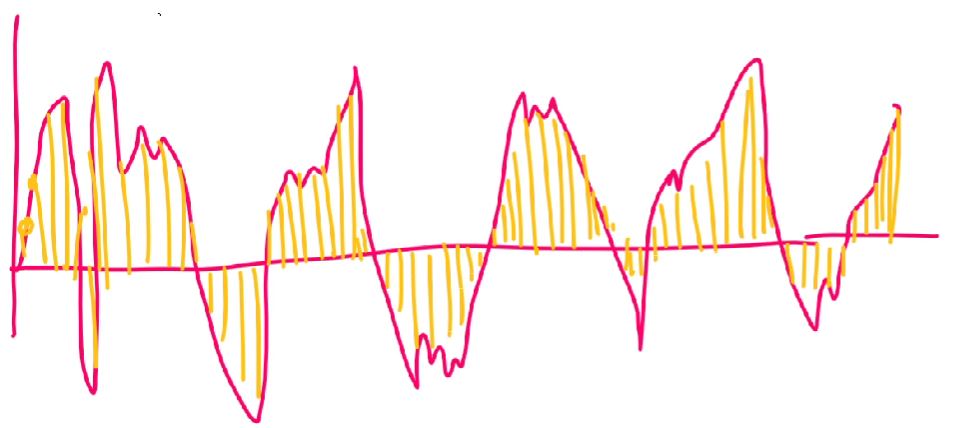
กรณีการเก็บเลข integer จะเก็บเป็นเลขตรงตัวเพราะ 1 กับ 0 เป็น integer อยู่แล้ว

สำหรับรูปภาพ

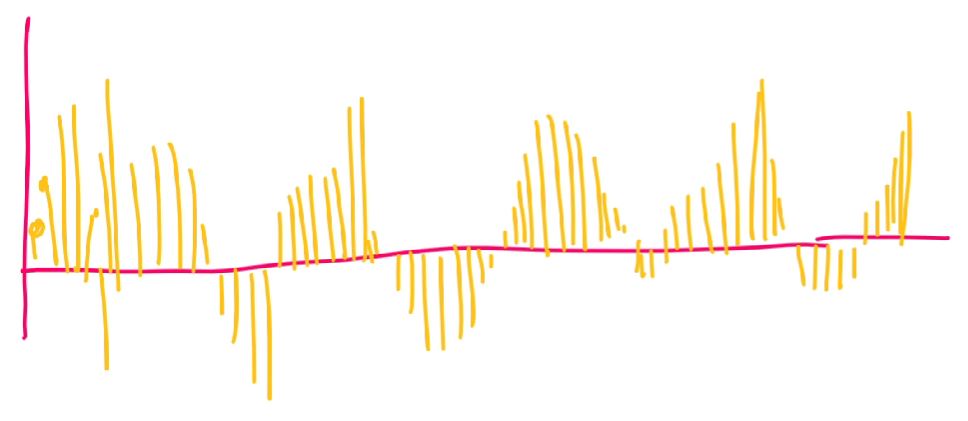
ถ้าเป็นการเก็บทุก pixel จะเรียกว่า bitmap แล้วไฟล์ก็จะใหญ่ ส่วนแบบอื่นก็จะเป็น png , jpeg

สำหรับเสียง

จะเก็บเป็น wave form โดยเก็บระยะ sampling rate (ดูที่เส้นสีเหลือง ถ้ามีเส้นสีเหลืองน้อยก็จะมีระยะห่างระหว่างเส้นสีเหลืองแต่ละเส้นมาก sampling rate ก็จะมากขึ้นตามระยะห่างระหว่างเส้นสีเหลืองแต่ละเส้น ส่วนความสูงของเส้นสีเหลืองแต่ละเส้นก็จะถูกนำไปแปลงเป็นเลขฐานสอง) ซึ่ง sampling rate ก็จะมีระดับต่าง ๆ เช่น 16,000Hz , 32,000 Hz , 44,100 Hz



แต่สิ่งที่คอมพิวเตอร์เก็บและเห็นจะไม่มีเส้นสีแดงส่วนที่เป็นคลื่นขึ้นลง (ซึ่งผลต่างระหว่างเส้นที่ขึ้นไปสูงที่สุดกับเส้นที่ลงล่างไปลึกที่สุดจะนับเป็นจำนวน bit เรียกว่า Bit Depth ซึ่ง Bit Depth จะเป็นการเก็บเสียงอีกรูปแบบหนึ่ง)



โดยปกติ เสียงจะถูกเก็บเป็น raw file ซึ่งมีขนาดใหญ่ก็เลยมีการแปลงอีกครั้งให้เป็น mp3

สำหรับวิดิโอ

ก็จะเก็บเป็นรูปแบบ H264 (MP4 หรือแบบอื่น ๆ)

โดยสรุปแล้วถึงแม้ว่าคอมพิวเตอร์จะเก็บเป็นเลขฐานสองแต่ฐานเลขสองนั้นก็สามารถสื่อไปถึงอย่างอื่นได้ผ่านการ encode ให้เป็นรูปแบบต่าง ๆ และการที่จะแสดงให้ผู้ใช้เห็นก็ต้องผ่านกระบวนการ decode ก่อน

**Network**

หน่วยในการวัดจะเรียกว่า SI (ใช้ทุกที่ในโลกยกเว้นอเมริกา) ซึ่งจาก SI แล้ว 1000 กรัมจะเท่ากับ 1 กิโลกรัมแต่ในคอมพิวเตอร์แล้ว 1 กิโลกรัมไม่ใช่ 1000 กรัมเพราะ 210 จะเท่ากับ 1024 แล้วประมาณให้เป็น 1000 กิโลบิท คอมพิวเตอร์จะส่งผ่านข้อมูลทาง internet 1024 บิทต่อวินาทีหรือ 1 Kb (kb = bit แต่ KB = Byte และ 8 bit = 1 Byte) ดังนั้นเวลาเชื่อมต่อกับ internet (หรือซื้อ package internet) ให้สังเกตให้ดีว่าเป็นตัว b หรือ B

![รูปภาพประกอบด้วย โต๊ะ

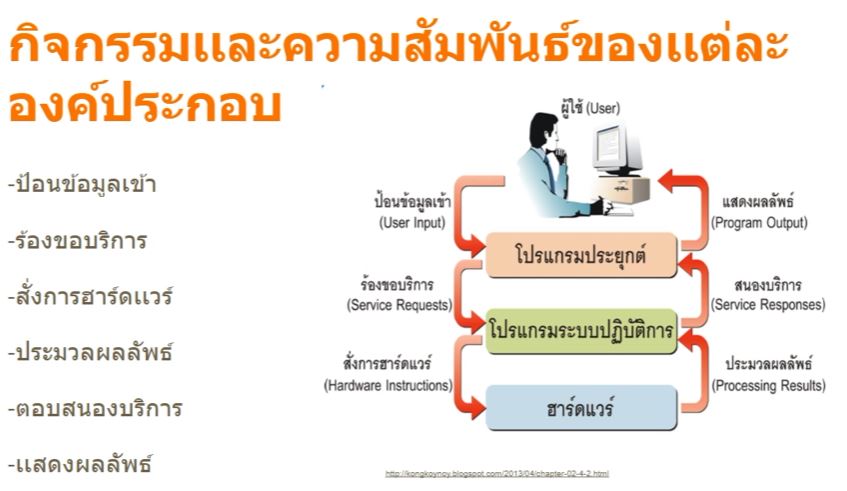
Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RE6RXhpZgAATU0AKgAAAAgABAE7AAIAAABBAAAISodpAAQAAAABAAAIjJydAAEAAAAuAAARBOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOC4iuC4suC4meC4meC4l+C4o+C5jCDguYDguKvguKXguLfguK3guIfguJvguKPguLDguYDguKrguKPguLTguJAAAAAFkAMAAgAAABQAABDakAQAAgAAABQAABDukpEAAgAAAAM5NAAAkpIAAgAAAAM5NAAA6hwABwAACAwAAAjOAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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จากรูปภาพจะเป็น 100 Megabit per sec (b ตัวเล็ก)

นอกเหนือจากอุปกรณ์นำเข้าข้อมูลแล้ว ผู้ใช้ยังสามารถนำข้อมูลจาก network (เช่น โหลดไฟล์จาก google drive) เข้าสู่คอมพิวเตอร์ก็ได้หรือนำข้อมูลจากสื่อเก็บบันทึกข้อมูลสำรอง (เช่นจาก Thumb drive) เข้าสู่คอมพิวเตอร์ก็ได้

**การทำงานของคอมพิวเตอร์**

การทำงานของคอมพิวเตอร์จะแบ่งเป็นชั้น ๆ



แต่ละชั้นก็จะแบ่งงานกันทำ โปรแกรมเมอร์ (ที่ทำบนชั้นโปรแกรมประยุกต์) จะไม่เขียนว่าให้หมุนหัวอ่าน hard disk ยังไงเพราะการหมุนหัวอ่านจะให้ OS (โปรแกรมระบบปฏิบัติการ) มาทำแทน ถ้าโปรแกรมประยุกต์จะอ่านไฟล์ก็จะใช้ “ร้องขอบริการ” ไปที่ OS แล้ว OS จะตรวจว่าไฟล์มีอยู่ (ซึ่งสามารถมีมากกว่า 1 process ทำงานในเวลาเดียวกันได้และสามารถเปิดได้ทีละหลายโปรแกรมซึ่งคอมพิวเตอร์ในสมัยก่อนทำไม่ได้) แล้ว OS ก็จะไปติดต่อกับ hardware แล้ว hardware จะ “ประมวลผลลัพธ์” กลับมาที่ OS แล้ว OS จะ “สนองบริการ” กลับขึ้นไป (จะไม่มีการข้ามขั้น)



หน่วยประมวลผลกลาง (CPU หรือ central processing unit)

สมมติว่าตอนนี้ผู้ใช้กำลังเขียนโปรแกรมภาษา C

#include<stdio.h>

Void main()

{int x=3; int y = 6; int z; z = x+y}

ซึ่งภาษา C เป็นภาษาที่มนุษย์เข้าใจแต่คอมพิวเตอร์ไม่เข้าใจจึงต้องเอาไปผ่าน compiler ก่อน (ซึ่ง compiler คือตัวแปลภาษา) ให้เป็น machine code แต่สำหรับภาษา JAVA จะไม่ได้แปลงเป็นภาษา machine code โดยตรง ซึ่งภาษา JAVA จะแปลงเป็น JAVA Byte code แทน

ใน CPU จะมีสิ่งที่เรียกว่า instruction set คือชุดคำสั่งที่ CPU สามารถเข้าใจได้ ซึ่ง CPU ของ intel ก็จะมี instruction set แบบหนึ่ง ถ้า AMD ต้องการให้ CPU ของตัวเองทำงานกับคอมพิวเตอร์ได้ก็ต้องมี instruction set ใกล้เคียงกับ CPU ของ intel ดังนั้นคนที่จะทำตัว compiler จะต้องไปเรียนรู้ว่า CPU มีคำสั่งอย่างไร (ซึ่ง JAVA Byte code ก็เป็น instruction set ตัวหนึ่งแต่เป็นตัวเสมือนบน JAVA virtual machine แล้ว JAVA virtual machine จะถูกนำไปรันบน CPU อีกครั้ง)

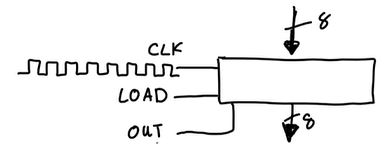
คนที่เขียน instruction set จะเขียนผ่านภาษา Assembly และต้องรู้ด้วยว่าโครงสร้างของ CPU เป็นอย่างไร และการเรียนรู้โครงสร้างของ CPU ต้องใช้เวลานานมาก จึงไม่ค่อยเป็นที่นิยม

จากคำสั่งภาษา C ข้างบน ก็จะต้องมีการ load memory ที่ชื่อ m1 เอาไปใส่ใน register A (register คือ memory ที่อยู่ใน CPU ซึ่งเป็นอีกประเภทนอกเหนือจาก RAM โดย register จะเร็วกว่าและแพงกว่า RAM) แล้วก็ load memory ที่ชื่อ m2 เอาไปใส่ register B (ซึ่ง m1 กับ m2 คือที่อยู่ของ RAM) แล้วสั่ง ADD m1 กับ m2 เข้า accumulator แล้วให้ STORE ผลลัพธ์จาก accumulator เข้า m2 (ซึ่งคำสั่งแบบนี้เป็นภาษา Assembly)

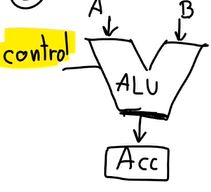
จะเห็นได้ว่าจากภาษา C เพียงบรรทัดเดียวจะต้องแปลงเป็นอีกหลายบรรทัดโดยใช้ภาษา Assembly ตามโครงสร้างของ CPU หากโครงสร้าง CPU ซับซ้อนมากก็ต้องมีคำสั่งมาก

ดังนั้นใน CPU จะมีส่วนประกอบดังนี้

1. Register เป็นที่เก็บข้อมูล (สร้างจาก flipflop) ถ้ามีขนาด 8 bit ก็คือเก็บข้อมูลได้ 8 bit พร้อมกัน input ขาเข้าและ output ขาออกก็จะมี 8 เส้น แล้วก็จะมีขา clock (CLK) หรือสัญญาณนาฬิกาซึ่งเป็นสัญญาณที่สลับ 0 กับ 1 เป็นจังหวะ เอาไว้ synchronize ให้ CPU ทำงานเป็นจังหวะ และมีอีกขาหนึ่งคือขา load (ที่อาจจะมีหลายแบบ) ไว้รับเฉพาะสัญญาณที่เป็น 1



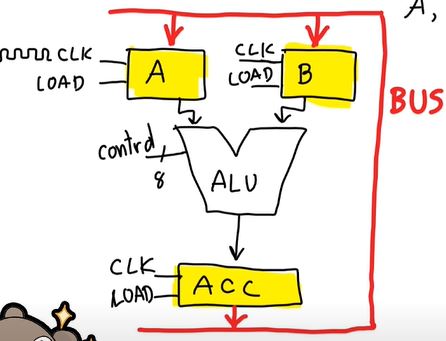
1. BUS หรือสายส่งข้อมูล โดยมาตรฐานจะเป็น 64 bit โดยที่จะไม่มีตัวเลขระบุไว้ เป็นอันรู้กันว่าคือ 64 bit
2. ALU (Arithmetic & Logic unit) มีความสามารถขึ้นกับ CPU ว่าทำอะไรได้บ้างแต่ส่วนใหญ่แล้วจะมี บวก, ลบ, คูณ, หาร, and, or, shift left, shift right, not และก็จะทำทีละหลักเช่น 1011 (เลข 11) and 0111 (เลข 7) จะได้ 0011 (เลข 3)



จะมีขาเข้าสองทางคือ A กับ B และขา control ที่จะบอกว่าให้ CPU ทำอะไร (ให้บวก ให้ลบ ให้คูณหรืออื่น ๆ)

1. Control unit จะรับ input มาจาก instruction register (IR) แล้ว control unit ก็จะโยงสายไปหา ALU (เป็นขา control ใน ALU)

**Simple Architecture**



ถ้าต้องการเอาข้อมูล A+B แล้วเอาไปเก็บใน accumulator สิ่งที่ control ต้องทำคือ

1. Load data ไปใส่ A
2. Load data ไปใส่ B
3. สั่ง ALU บวกและสั่ง accumulator load = 1

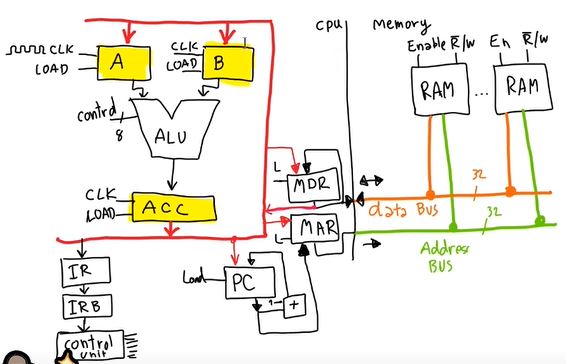
CPU จะทำงานแบบโดดเดี่ยวไม่ได้ต้องมี memory มาด้วย โดยภายใน RAM (ซึ่งอาจจะมีหลายตัวบน BUS เดียวกัน) จะมีขาเข้า Enable และขาเข้า Read write (ถ้าเป็น 0 ก็คือ read ถ้าเป็น 1 ก็คือ write) และ input ที่จะเข้าไปใน RAM ก็คือ address bus กับ data bus ซึ่ง address bus กับ data bus ก็จะมีจำนวนเส้นตามจำนวน bit ที่ระบุไว้ (เหมือนกับ Register)

Address bus คือที่อยู่ว่าจะเอาข้อมูลตำแหน่งไหนของ RAM และใน CPU จะมีสิ่งที่ต่อกับ Address bus คือ memory address register (MAR) ซึ่งจะไหลออกทางเดียว

Data bus คือ เส้นทางผ่านในการควบคุมการส่งถ่ายข้อมูลจากตัว CPU ไปยังอุปกรณ์ภายนอกหรือรับข้อมูลจากอุปกรณ์ภายนอก เพื่อทำการประมวลผลที่ CPU และใน CPU จะมีสิ่งที่ต่อกับ Data bus คือ memory data register (MDR) ซึ่งจะไหลเข้าและออก

นอกจากนี้การทำงานของ CPU จะต้องมี register พิเศษอีกตัวคือ PC (Program counter) ซึ่งเป็นตัวอ่าน instruction set ทีละบรรทัดเพื่อบรรทัดตอนนี้ทำงานถึงบรรทัดไหนแล้วและบอกว่าคำสั่งนี้อยู่ตรงไหนใน RAM ใน PC ก็จะมีวงจรบวกกับเลข 1 (หรือเลขอื่นตาม instruction byte) แล้วก็มีคำสั่ง Load และ output ที่ออกจาก PC ก็จะไปเข้า MAR

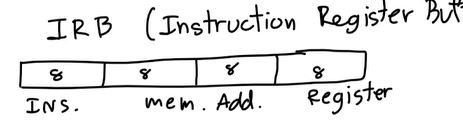
นอกจากนี้ในฝ่าย control จะต้องมี IR (Instruction register) อีกเพื่อติดต่อกับ control unit แล้วใน control unit ก็จะมีสายเชื่อมต่อกับ register ต่าง ๆ อีก



เมื่อเขียนภาษา C ที่กำหนดให้ z = x+y จะถูก compile ให้เป็น machine code หรือภาษาที่ instruction set รู้เรื่องโดยมีขั้นตอนคือ

1. Load m1,A จะต้องบอกว่า address ที่ m1 คืออยู่ที่ไหน สมมติว่า memory มีทั้ง 1 MB ที่ตำแหน่งที่ 1000 เก็บเลข 3 ไว้ ก็ให้ m1 เป็นลำดับที่ 1000 และ RAM ลำดับที่ 1000 เก็บเลข 3 ไว้ ในขั้นตอนนี้จะมีขั้นตอนย่อยอีก
   * + Fetch instruction ให้เข้าไปเก็บใน IR โดยจะโหลด MAR ด้วยค่าของ PC แล้วให้ PC เท่ากับ PC+1 (หรือเลขอื่นตาม instruction byte) แล้วค่าที่อยู่ใน PC ก็จะไหลไปที่ MAR ลำดับต่อไปข้อมูลจาก MAR ก็จะไหลไปที่ address พร้อมกับส่งคำสั่ง Read write ไปที่ RAM และ enable RAM ให้เก็บข้อมูลได้ แล้ว RAM จะส่งข้อมูลออกมาทาง Data bus ให้ MDB (Memory data buffer) เก็บข้อมูลที่มาทาง Data bus (MDB\_Load\_Databus = 1) แล้วข้อมูลจาก MDB ถูกเก็บเข้า CPU bus (MDB\_out = 1) แล้วข้อมูลจาก CPU bus ถูกส่งต่อให้ IR (IR\_load = 1) ในกรณีที่ control unit กำลังใช้ข้อมูลจาก IR อยู่แล้วมีการโหลด step ถัดไปเข้ามาใน IR จะทำให้ IR เสีย จึงต้องมีขั้นตอนส่งต่อข้อมูลจาก IR ไปที่ IRB ด้วย
     + Decode ให้ instruction นี้ทำอะไรเพราะตอนนี้คำสั่ง Load m1,A อยู่ใน IRB แล้วแต่ใน control unit ยังไม่รู้ว่าคำสั่งคืออะไร จึงต้องมีการ decode ก่อน เพื่อให้ control unit รู้
     + Execute ทำตามโดยเอาข้อมูลจาก memory ลำดับที่ m1 เข้าไปใส่ register A

ใน IRB (Instruction register buffer) จะมีโครงสร้างคือ



8 bit แรกจะเป็น code บอกว่าให้ทำอะไร อีก 16 bit ถัดมาจะเป็น memory address และอีก 8 bit สุดท้ายจะเป็นชื่อ register

เอา memory address (ส่วนที่เป็น 16 bit) ไปใส่ใน CPU bus แล้วโหลด MAR ด้วย bus (MAR\_LOAD\_BUS = 1) เป็นคำสั่งส่งออกไปจาก control unit ไปที่ MAR แล้วจาก MAR ให้ส่งต่อไปที่ address bus เพื่อส่งต่อไปที่ RAM (ต้องมีการ enable RAM ด้วย) ซึ่งต้องรอให้ RAM ทำงานสักพักเพราะ RAM มักจะทำงานช้าแล้วข้อมูลก็จะออกมาจาก RAM วิ่งไปตาม Data bus ไปที่ MDR (MDR\_LOAD\_DATABUS = 1) แล้วข้อมูลจาก MDR ถูกส่งที่ไปที่ bus ภายใน (MDR\_OUT = 1 ซึ่งทำให้ขาอื่นต้องเป็น 0 ให้หมด) แล้ว A ก็จะเก็บข้อมูลจาก bus (A\_LOAD\_BUS = 1)

* + - Store เก็บผลลัพธ์ จากคำสั่งนี้ (Load m1,A) ไม่มีการ store ผลลัพธ์จึงข้ามไป

1. Load m2,B คำสั่งนี้จะทำเหมือนกันกับ Load m1,A
2. ADD (สั่งบวกเลข) (ก่อนคำสั่งนี้จะต้องมีข้อมูลอยู่ใน register A กับ register B แล้ว) จะเป็น ALU\_ADD = 1 แล้วให้ ACC\_LOAD = 1 ทำให้ข้อมูลจาก A กับ B ไหลมาเข้า ALU กับ ACC

ในขั้นตอน ADD ก็มีขั้นตอนย่อยเหมือนกับคำสั่ง Load m1,A แต่ข้ามการ store ไป

1. STORE ไว้ที่อีก address (เช่น m3)(STORE m3,ACC) จะเป็นการนำข้อมูลจาก ACC มาเข้า m3 ก่อนอื่นให้ ACC\_OUT = 1 เป็นการโหลด bus จาก ACC แล้วเอาข้อมูลไปที่ MDR (MDR\_LOAD\_BUS = 1) ต่อมาก็จะต้องส่งจาก MDR ไปที่ MAR ผ่าน bus (CONTROL\_MEM\_OUT = 1) (MAR\_LOAD\_BUS = 1) (MAR\_OUT =1) แล้วข้อมูลก็จะไหลไปที่ RAM (ต้องมีการ enable RAM ด้วย) หลังจากนี้ก็รอ RAM อีกครั้ง

ในขั้นตอน STORE ก็มีขั้นตอนย่อยเหมือนกับคำสั่ง Load m1,A แต่ข้ามการ execute ไป

ขั้นตอนทั้งหมดที่กล่าวมาจะใช้ CLK cycle ขั้นตอนละ 1 CLK cycle(ยกเว้นส่วนที่รอ RAM จะมากกว่านั้น) และ PC เพิ่มขึ้น

ตัว compiler ก็จะมีการเชื่อมต่อว่า m1 เชื่อมกับ x , m2 เชื่อมกับ y , m3 เชื่อมกับ z

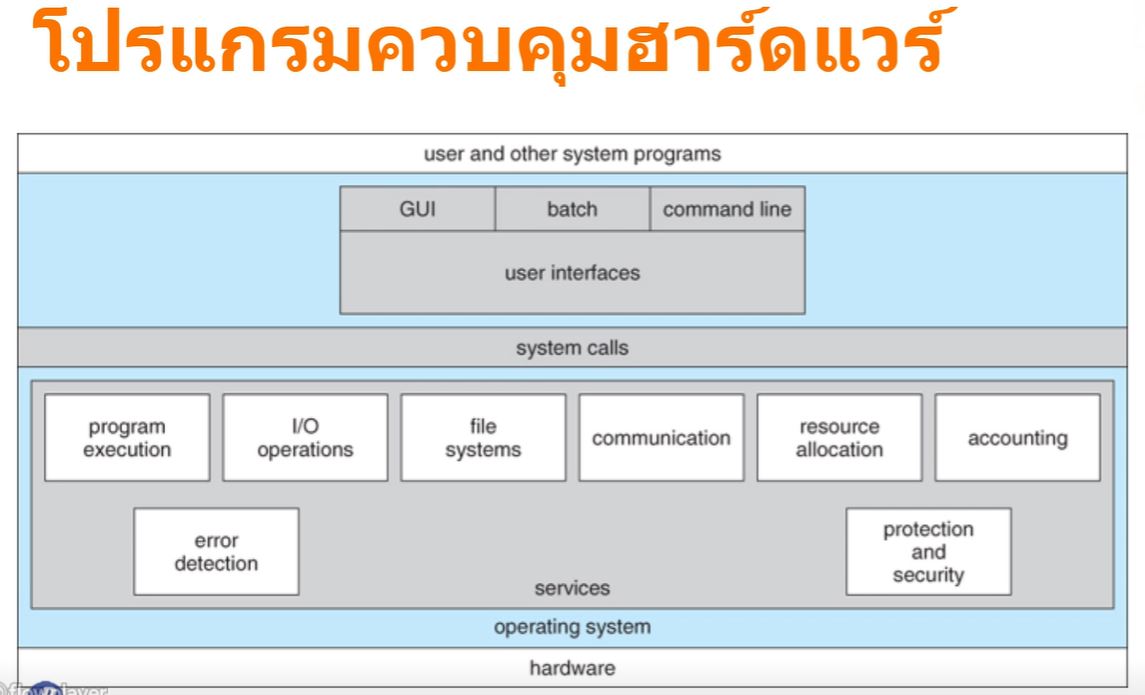
**ระบบปฏิบัติการ (OS)**

OS เป็น software ชนิดหนึ่งที่ทำหน้าที่ควบคุม จัดการ software อื่น ๆ และ hardware ที่เกี่ยวข้องเพื่อคอมพิวเตอร์ทำงานได้ตามที่ผู้ใช้ต้องการ คอมพิวเตอร์แต่ละเครื่องจะมี OS ที่ไม่เหมือนกันก็ได้หรือเรียกว่ามีหลาย platform ก็ได้ (ตัวอย่าง platform เช่น LINUX , MacOs , Android , window)

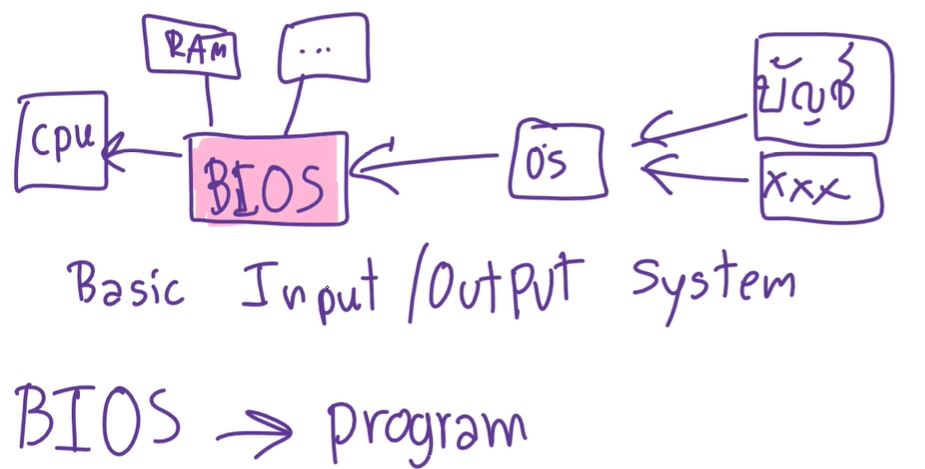
ถ้าผู้ใช้มีโปรแกรม A , โปรแกรม B , โปรแกรม C (ที่เรียกรวม ๆ ว่า application software ซึ่ง application software ที่สามารถรันได้หลาย OS จะเรียกว่า cross platform ภาษา JAVA ก็เป็น cross platform) แล้วให้ A,B,C มาจัดการกับ CPU , RAM , Hard disk เองหมด คอมพิวเตอร์ก็จะเละเช่นขณะที่โปรแกรม A กำลังเขียนไฟล์อยู่ก็อาจจะมีโปรแกรม B มาแทรก แล้วไม่รู้ว่าโปรแกรมไหนควรจะได้ทำก่อนหรือหลัง ควรจัดสรรทรัพยากรเครื่องให้โปรแกรมไหนก่อน ซึ่ง OS จะเป็นผู้ทำหน้าที่นี้โดย OS จะมีสิ่งที่เรียกว่า service (เป็น interface ให้เรียกใช้) ซึ่ง OS จะไปควบคุม CPU , RAM , Hard disk แล้ว A,B,C จะมาเรียก service แทนแล้ว service จะไปสั่งงาน OS

ทุกวันนี้ Software จะมีแบบขาย (เช่น window) กับแบบ open-source (ใช้ฟรี ปรับแต่งได้) (เช่น LINUX UBUNTU) สำหรับ software แบบก็จะมีแบบขายขาดกับแบบ subscription (จ่ายใช้รายปี ส่วนใหญ่เป็นแบบนี้)

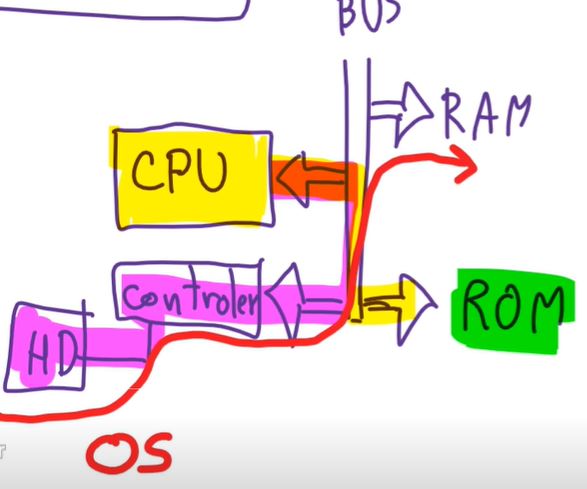
ตัวอย่างการทำงานผ่าน OS



เริ่มที่ส่วนล่างสุดตั้งแต่ตอนเปิดเครื่อง (จะเรียกว่าการ BOOT) โดยคอมพิวเตอร์จะมีสิ่งที่เรียกว่า BIOS (Basic input output system) ซึ่งบรรจุคำสั่งฝังอยู่ในหน่วยความจำ ROM (read only memory คำสั่งใน ROM จะแก้ไขไม่ได้อีกเลย แต่ในตอนนี้มีการแก้ไขให้แก้คำสั่งได้แล้วผ่าน flash ROM) ที่ควบคุม hardware ทั้งหมดและเป็นอิสระต่ออุปกรณ์คือไม่ต้องรู้ว่าอุปกรณ์นั้นคืออะไรก็ทำงานได้แต่เมื่อมีการติดตั้งอุปกรณ์เพิ่มเติมที่ BIOS ไม่รู้จักก็จะต้องมี driver แทนเพื่อให้ทำงานร่วมกันได้

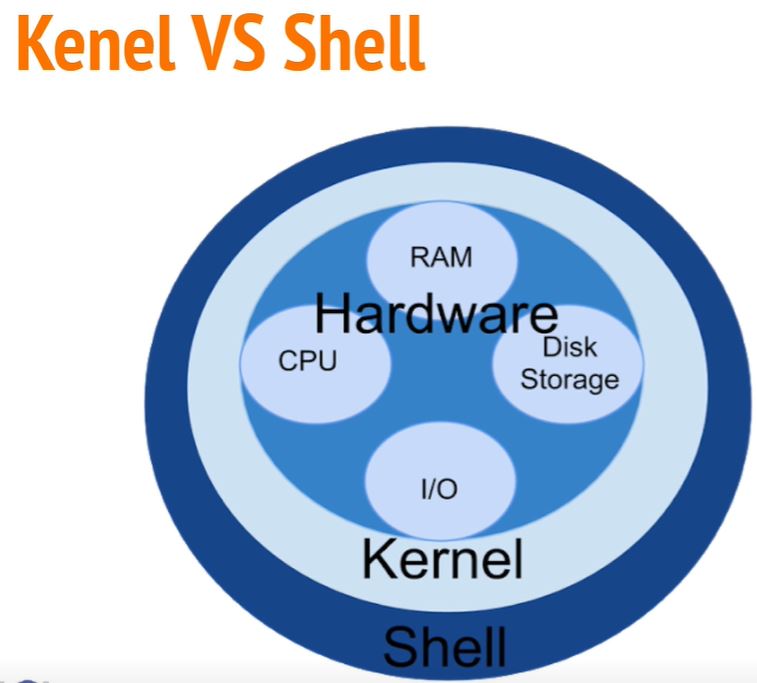


การ BOOT UP คือการที่ ROM สั่ง CPU แล้ว CPU จะมาหาใน hard disk แล้วเอาข้อมูลจาก hard disk ซึ่งก็คือ OS ให้เข้าไปใน RAM (ตอนที่ลง window ก็จะให้เลือกว่าจะลงเข้า hard disk ตัวไหน เมื่อเลือกแล้ว ROM จะมาเรียกไปจาก hard disk ที่ลงไว้ ผ่าน boot loader)



เมื่อเปิดเครื่องก็จะมี

1. Power หรือ power supply เป็นตัวนำไฟฟ้าไปเลี้ยงส่วนต่าง ๆ ของคอมพิวเตอร์
2. CPU อ่านข้อมูลจาก BIOS ที่อยู่ใน ROM
3. POST (Power on self test) CPU จะทำ POST คือตรวจ hardware ว่าอยู่ครบหรือไม่ มีอะไรหายไปบ้าง install อยู่ถูกที่หรือไม่ CPU ต่ออยู่หรือไม่
4. CMOS ข้อมูลที่ถูกตรวจสอบจะถูกนำไปตรวจสอบใน CMOS อีกครั้งว่าสิ่งที่คอมพิวเตอร์เห็นถูกต้องตรงกันหรือไม่ ถ้าถูกต้องก็ทำงานต่อ
5. แล้ว BIOS จะไปดึง OS ออกจาก hard disk , SSD , ROM
6. แล้วเอา OS ไปเก็บไว้ใน RAM (ซึ่งใน OS จะมีสิ่งที่เรียกว่า kernel กับ shell) และดึง kernel ที่อยู่ใน OS ออกมาแสดงผล
7. เอาค่า config ต่าง ๆ มาใช้



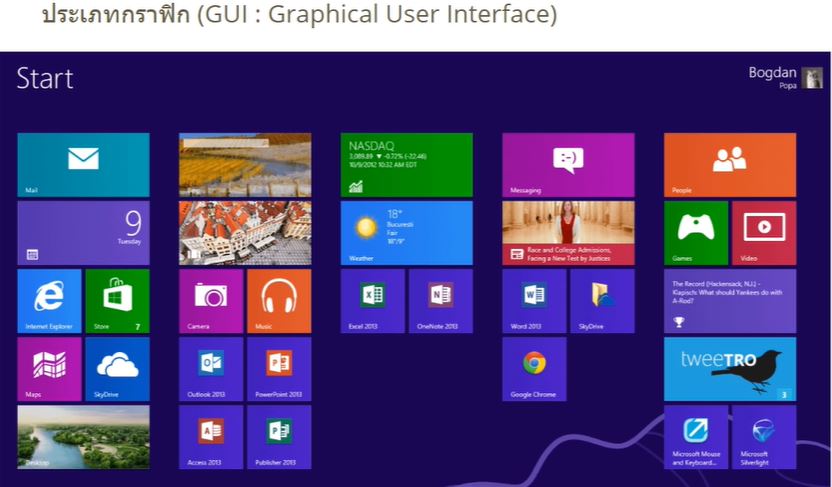
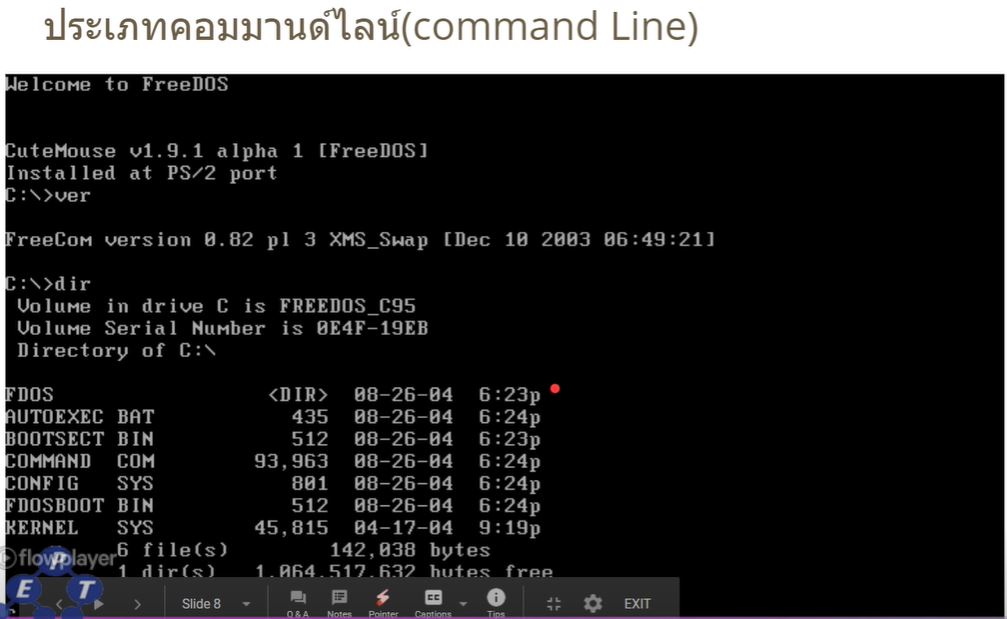
Shell คือเปลือก (ใน window จะมี command prompt ซึ่ง command prompt ก็คือ shell เหมือนกัน)

ส่วน Kernel คือแก่นหลักของทั้งหมดที่สำคัญเช่นระบบจัดสรรหน่วยความจำ ระบบจัดการการทำงานของไฟล์ ระบบ process / Kernel จะไม่ให้คนอื่นมาเรียกโดยตรง (ให้ผ่าน shell เท่านั้น)

การ boot เครื่องจะมี 2 แบบคือ cold boot (ที่ทำงานจาก hardware โดยตรงเช่น ปิดโดยกดที่ปุ่มปิดเครื่องค้างไว้หรือเปิดโดยกดปุ่มเปิดเครื่อง) , warm boot (ที่ทำงานจากการกดสั่งใน OS เช่น กดคำสั่ง restart จาก menu ใน window) วิธีนี้คอมพิวเตอร์จะยังไม่ตัดไฟ CPU ยังทำงานต่อเนื่องอยู่

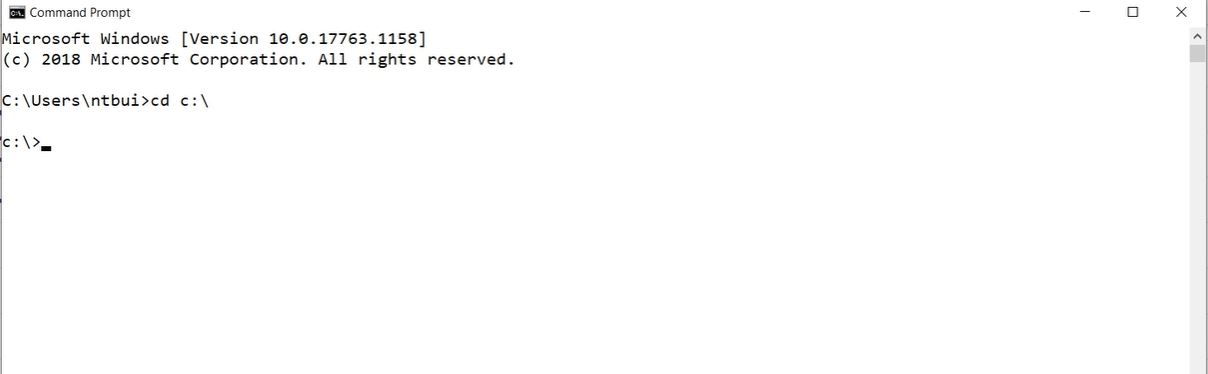
**USER INTERFACE**

ตัว OS ที่อยู่โดด ๆ จะใช้งานไม่ได้จะต้องมีการใช้งานและการใช้งาน OS จะมีสองอย่าง คือ command line กับ GUI (Graphic User Interface) command line มักใช้งานไม่ค่อยสะดวก จึงมีแบบ GUI ขึ้นมาแทน

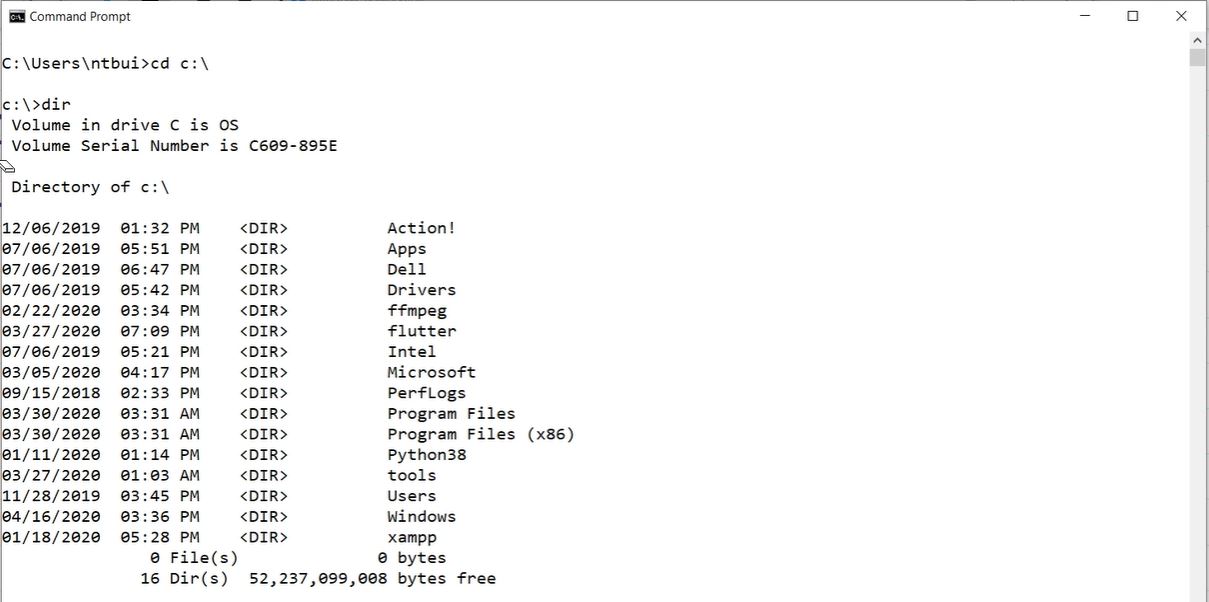


**หน้าที่ของ OS**

OS จะรับคำสั่งจากผู้ใช้และจาก software โดยการใช้งานจะพิมพ์ผ่าน command prompt หรือ click ที่ GUI



สั่งให้ไปที่ Drive C



สั่งให้ list รายการทั้งหมดที่มีใน drive C ออกมาทั้งหมด

ในกรณีที่รับคำสั่งผ่าน GUI หรือรับคำสั่งผ่าน software อื่นจะมีการผ่าน service API (Application Programming Interface) จะแบ่งเป็น

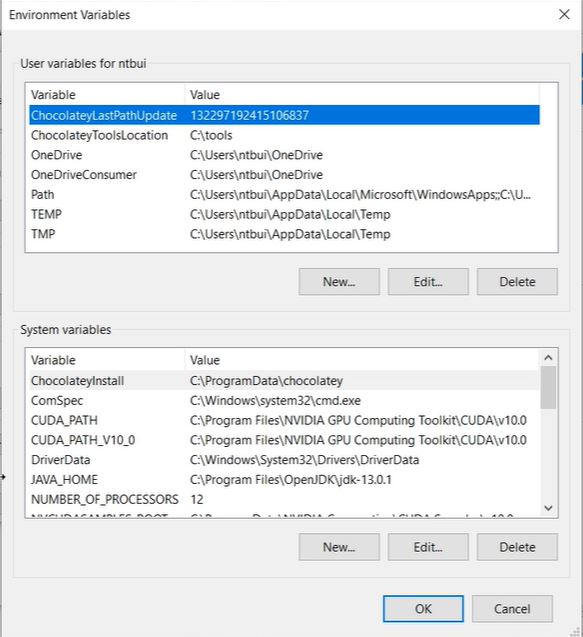
1. File ไฟล์ในคอมพิวเตอร์จะอยู่ในสถานที่ที่เรียกว่า path ตัวอย่างของ path เช่น C:\users\nt\picture\a.jpg ชื่อ a จะเป็นชื่อไฟล์และ .jpg จะเป็น file extension หรือนามสกุลของไฟล์ (เวลาแสดงชื่อไฟล์ในเครื่องให้แสดง file extension เสมอเพื่อความปลอดภัยเพราะ hacker จะตั้งชื่อไฟล์ให้ติด extension ไปด้วย เหมือนปลอม extension เพื่อหลอกผู้ใช้งาน แต่ถ้ากดให้แสดง extension จะเห็นชัดเจนนอกจากนี้รูปภาพ ICON ก็เชื่อถือไม่ได้เพราะรูป ICON ก็สามารถเปลี่ยนได้) ตัวอย่างแบบนี้



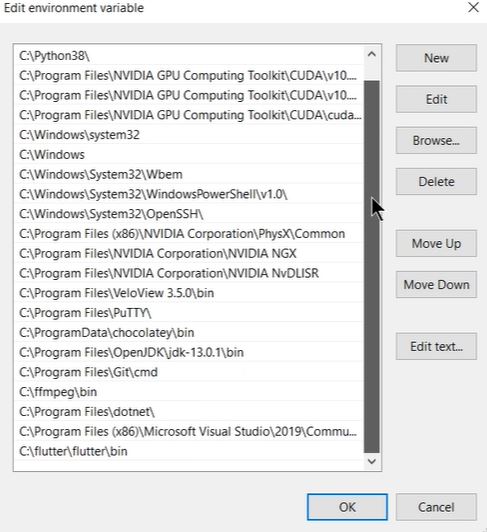


(แต่ในส่วนของ LINUX UBUNTU จะไม่มี file extension แต่จะใช้เป็น magic number ฝังลงไปในไฟล์แทนและจะทำให้ทำงานช้ากว่า file extension)

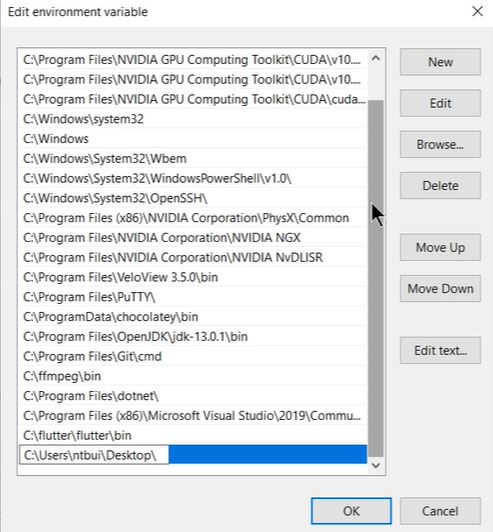
จะมีตัวแปร variable ใน window โดยกดเข้าไป click ขวาที่ This PC > Properties > Advanced system settings > Environment Variables



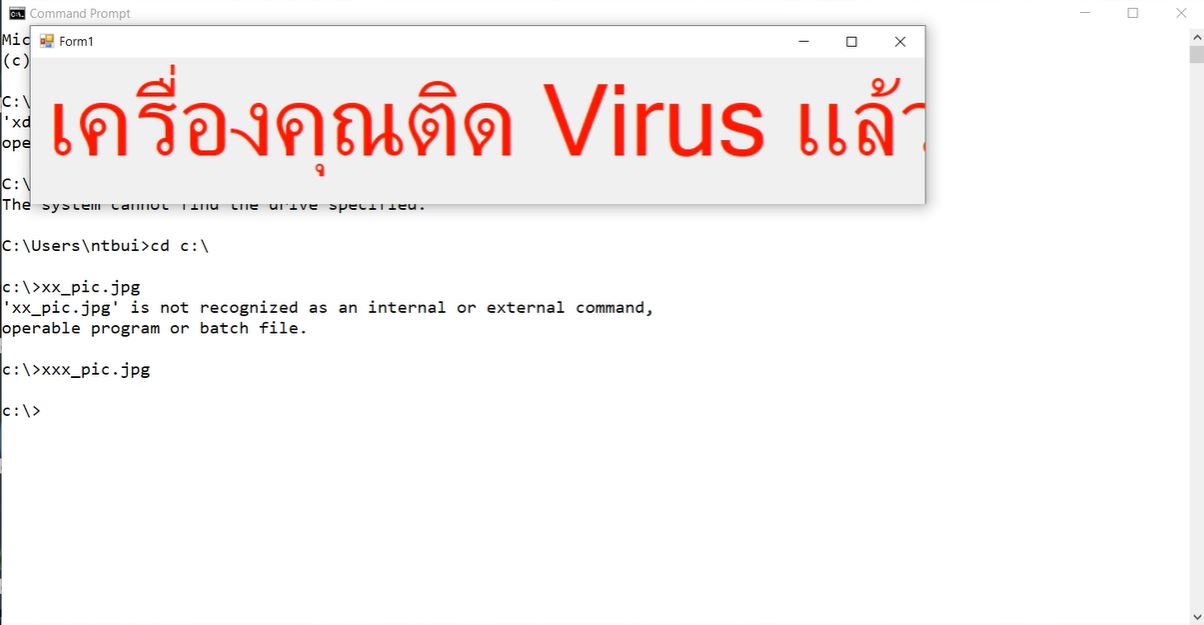
จะมี user variable (อยู่กรอบบน) กับ system variable (อยู่กรอบล่าง) ตัวแปรที่สำคัญคือตัวแปรที่ชื่อ PATH ที่อยู่ใน system variable (อยู่ล่าง ๆ และต้อง scroll ลงมาก่อนจึงจะเห็น) ซึ่งเป็น path ไปยังโปรแกรมต่าง ๆ ในคอมพิวเตอร์ทั้งหมด เนื่องจากหากต่างหากเปิดโปรแกรมต่าง ๆ ก็ต้องใช้คำสั่ง cd (change directory) เพื่อไปยังที่อยู่ที่เก็บไฟล์ก่อนทุกครั้งทำให้ยุ่งยาก PATH จึงเข้ามาช่วยในส่วนนี้โดย กดที่ path ใน system variable แล้วกดปุ่ม Edit



แล้วกดที่ New แล้วเพิ่ม path ที่ต้องการลงไป (จากตัวอย่างจะเป็นการเพิ่ม Desktop ลงไป)



ซึ่งเมื่อเพิ่ม PATH แล้วก็สามารถกดเปิดโปรแกรมผ่าน command line ได้โดยที่ไม่ต้องเปลี่ยน directory ก่อน

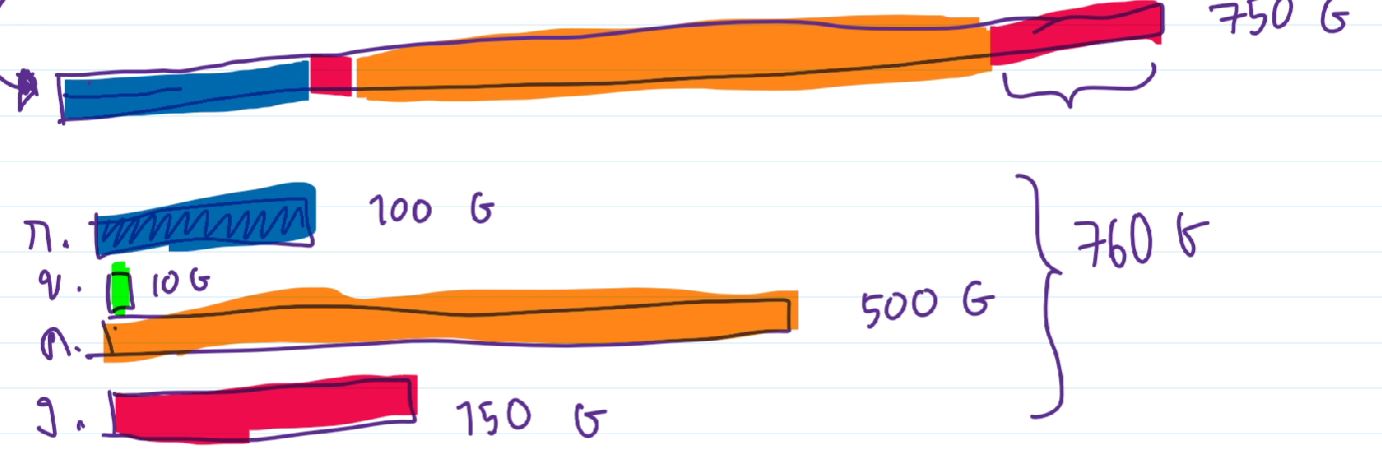


**File system (ระบบจัดการไฟล์)**

เป็นระบบจัดการไฟล์เช่น NTFS , FAT32 จาก hard disk ที่เป็นหัวอ่านกลม ๆ ซ้อนกันอยู่หลายชั้น แต่ละชั้นจะมีหัวอ่านเป็นของตัวเอง สมมติว่าถ้าเอาพื้นที่ใน hard disk มาเรียงกันยาว ๆ ไฟล์ในเครื่องก็จะถูกเก็บเรียงไป



จากรูปภาพจะเห็นว่าไฟล์ ก,ข,ค ถูกจัดเรียงต่อกันไป ถ้ามีไฟล์ ง เพิ่มเข้ามาแล้วพื้นที่ไม่พอเก็บไฟล์ ง ถ้าลบไฟล์ ข ออกไปก็จะมีพื้นที่เหลือพอสำหรับไฟล์ ง แต่การเก็บไฟล์ ง จะถูกแยกเก็บแล้ว

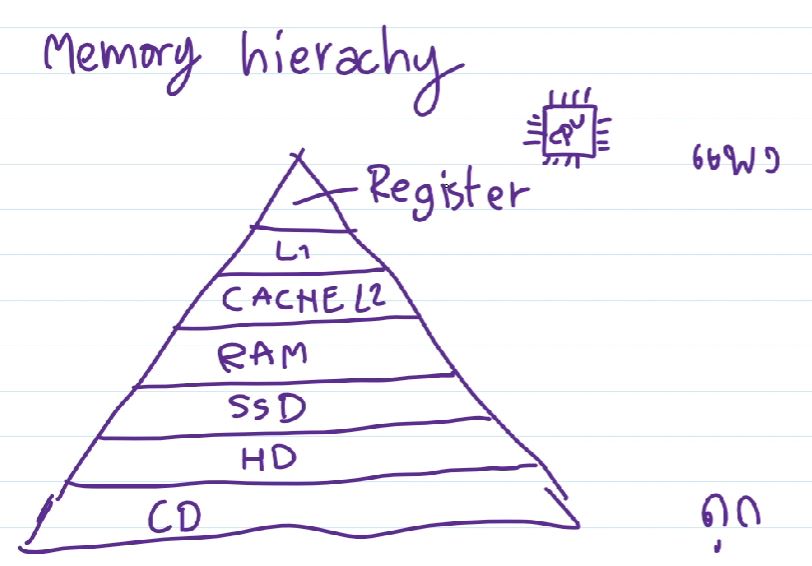


จากรูปภาพจะเห็นว่าไฟล์ ง (สีแดง) ถูกแยกเป็นสองส่วนซึ่งแบบนี้จะเป็นปัญหาที่เรียกว่า internal fragmentation และ hard disk จะมี infrastructure บางอย่างที่บอกว่าไฟล์สีแดงเป็นไฟล์เดียวกันเรียกว่า LOGICAL (เห็นด้วยตาว่าเป็นไฟล์เดียวกัน) กับ PHYSICAL (แต่ถูกเก็บแยกกัน) ซึ่ง OS จะเป็นผู้กำหนดให้ผ่านทาง SDS (Software define storage)

การจะไฟล์หากันระหว่างคอมพิวเตอร์อาจจะใช้ thumb drive ที่ไม่สะดวกเลยมีการจัดทำ storage server ตั้งค่าให้เป็นอีก drive เช่น drive z แล้วส่งไฟล์ผ่าน storage server แทนหรือให้คอมพิวเตอร์แต่ละเครื่องลง VMWARE (Virtual machine) ไว้ ในกรณีที่ hardware พังก็สามารถย้าย VMWARE ไปใส่เครื่องอื่นได้ ซึ่งเครื่องอื่นจะมี OS ไม่เหมือนกับ OS ของเครื่องเดิมที่เสียไปแล้วก็ได้หรือทำ virtual hard disk ไว้ในเครื่องหนึ่งแล้วจาก virtual hard disk ก็ส่งไปเก็บใน hard disk จริงที่อยู่ใน storage server ก็ได้ ทำให้การ back up ถูกทำผ่านเฉพาะใน storage server อย่างเดียวก็ได้

การจัดการกับ memory โดย memory ในคอมพิวเตอร์จะถูกแบ่งออกมาเป็นสองส่วนคือ Main (หน่วยความจำหลัก) กับ Secondary (หน่วยความจำสำรองเช่น hard disk , DVD , CD-ROM , SSD) ที่ต้องมีการจัดการกับ memory เพราะผู้ใช้ต้องการใช้มากกว่าที่ว่างที่มี เช่นในคอมพิวเตอร์มี RAM 64GB มี hard disk 2 TB แล้วผู้ใช้ต้องการใช้ 256 GB OS จะใช้ virtual memory แทนโดยแบ่งพื้นที่ใน virtual memory ออกเป็นหลายส่วนแล้วจะสร้างไฟล์ที่มีขนาดเท่ากัน (หลังจากแบ่งส่วนแล้ว) แล้วย้ายไฟล์ที่ไม่ค่อยได้ใช้ออกไปเก็บที่ hard disk เอาไฟล์ที่ใช้บ่อย ๆ เก็บไว้กับ RAM (กระบวนการนี้เรียกว่า SWAP file ซึ่งทำให้คอมพิวเตอร์ช้าลงถ้ามีการย้ายบ่อย ๆ) เพราะปกติแล้วผู้ใช้ก็ไม่ได้เปิดโปรแกรมทีเดียว 64 GB พร้อมกัน

จะมีลำดับชั้นของการเก็บข้อมูล memory hierarchy ชั้นบนสุดคือแพงและเร็ว ชั้นล่างสุดคือถูกและช้า (register จะเร็วที่สุดและแพงที่สุด)

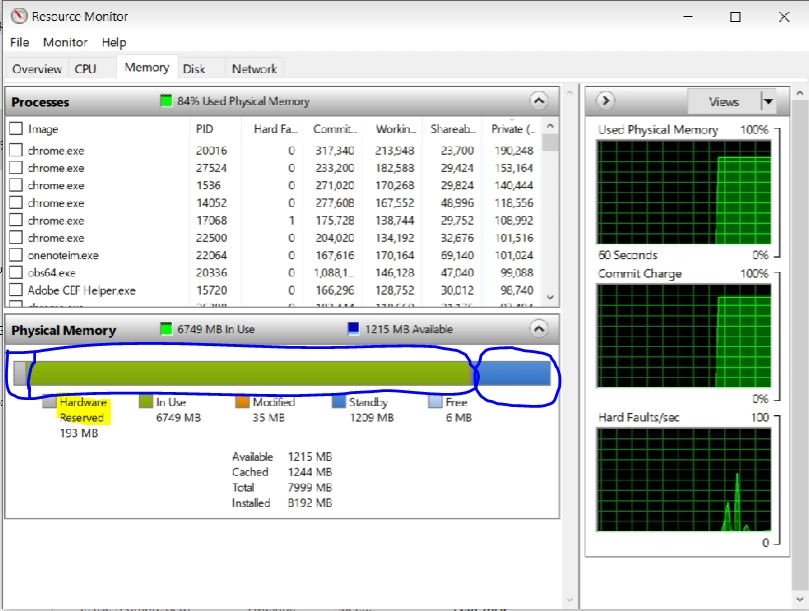


![รูปภาพประกอบด้วย โต๊ะ

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RE6RXhpZgAATU0AKgAAAAgABAE7AAIAAABBAAAISodpAAQAAAABAAAIjJydAAEAAAAuAAARBOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOC4iuC4suC4meC4meC4l+C4o+C5jCDguYDguKvguKXguLfguK3guIfguJvguKPguLDguYDguKrguKPguLTguJAAAAAFkAMAAgAAABQAABDakAQAAgAAABQAABDukpEAAgAAAAM4MgAAkpIAAgAAAAM4MgAA6hwABwAACAwAAAjOAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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จากภาพจะเห็นว่ามี

* RAM 8 GB (ดูขวาบน)
* ใช้ไปแล้ว 6.6 GB (ดูซ้ายล่าง)
* Paged pool คือที่สลับเข้าออกได้



จากภาพจะเห็นว่ามี

* Hardware reserved ใช้สำรองกับระบบปฏิบัติการ
* พื้นที่สีเขียวคือ RAM ทั้งหมดที่ใช้จริง
* พื้นที่สีน้ำเงินคือรอใช้

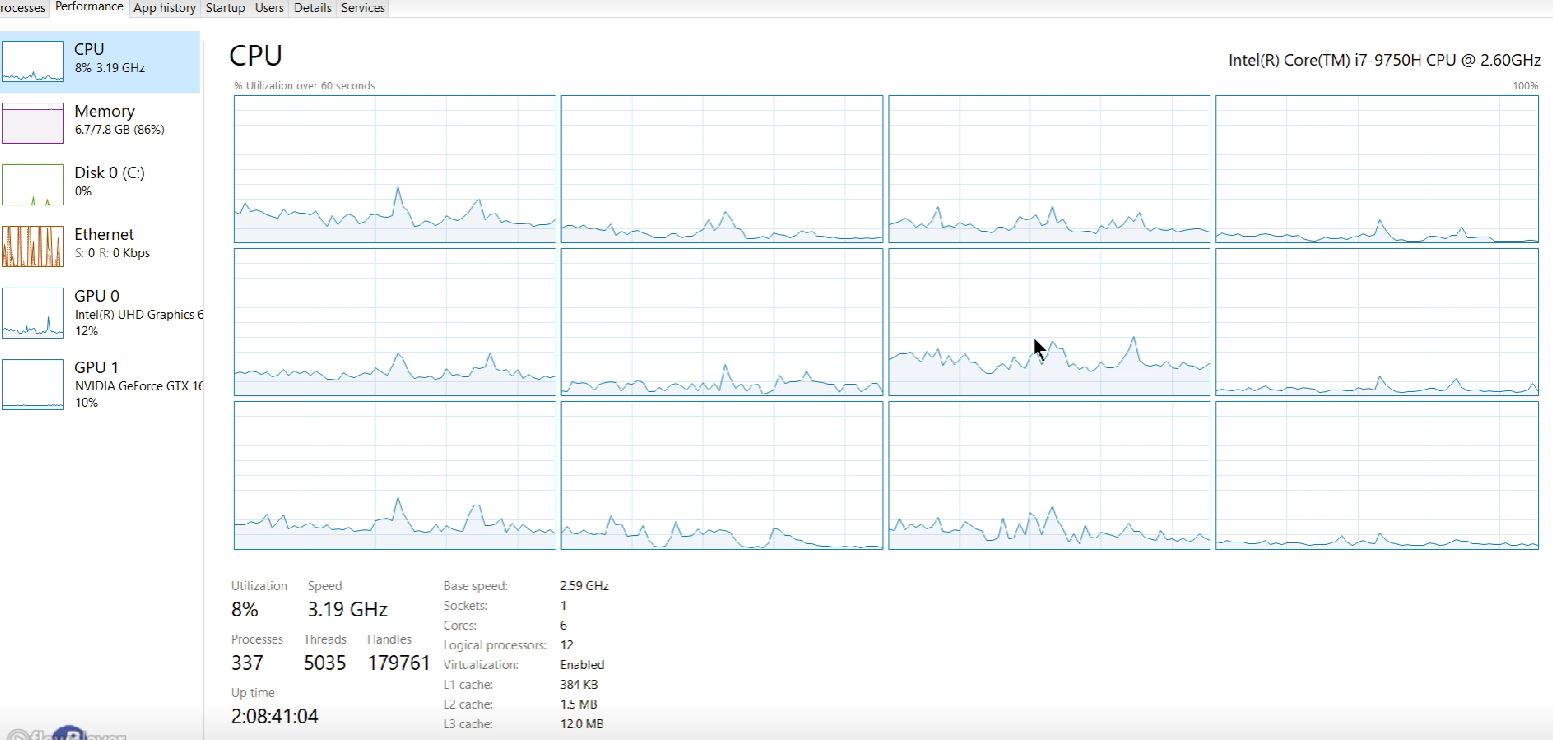
ระบบ I/O หรือ input output โดย OS จะจัดการว่าเมื่อรับ input จาก keyboard แล้วทำอะไรต่อซึ่งจะมี buffer (คือพื้นที่ที่อยู่ใน RAM) ที่จะเอาของที่จะใช้มาใส่ไว้ก่อนเช่นถ้าจะแสดงผลที่จอภาพ CPU ก็จะเอาข้อมูลมาใส่ buffer ไว้ก่อนแล้วให้การ์ดจอมาอ่านจาก buffer (ยกเว้นเครื่อง print ที่จะเอา buffer ไปอยู่ใน hard disk แทนเพราะมีขนาดใหญ่ แล้วจะเรียกว่า spooling แทน buffer)

ถ้า OS รู้จักอุปกรณ์พวกนี้ OS จะจัดการกับอุปกรณ์พวกนี้โดยตรงแต่ถ้าไม่รู้จักก็จะต้องใช้ driver แทน (driver เป็น software ที่ใช้ควบคุมอุปกรณ์นั้น ๆ) แล้วให้ driver ไปติดต่อกับ OS อีกที ผู้ผลิต OS จะเปิดช่องให้ผู้พัฒนาอุปกรณ์สามารถเขียน software การควบคุมอุปกรณ์มาเชื่อมต่อได้

นอกจากนี้ยังมีสิ่งที่เรียกว่า plug&play ทำให้เมื่อผู้ใช้เชื่อมต่ออุปกรณ์เข้ากับคอมพิวเตอร์ ตัว OS ก็จะจัดการให้ทันทีแต่ถ้า OS ไม่รู้จัก OS ก็จะไปหาโหลดจาก internet มาให้

โปรแกรมจะไม่สามารถจัดการกับ I/O ได้โดยตรง ต้องผ่าน OS เท่านั้นแล้วให้ OS จัดสรรต่อไป

คอมพิวเตอร์ในสมัยนี้มีสิ่งที่เรียกว่า multi-tasking คือ OS สามารถทำงานได้หลายอย่างในเวลาเดียวกัน



จะเห็นว่าในรูปภาพมี CPU ทั้งหมด 6+6 เป็น 12

![รูปภาพประกอบด้วย โต๊ะ

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แต่โปรแกรมที่กำลังรันอยู่มี 100+ (CPU หนึ่งตัวรันได้ทีละโปรแกรมแต่ CPU ทำงานได้เร็วมากโดยมี OS จัดสรรให้)

Multi-tasking คือการนำ process (program in execution หรือโปรแกรมที่กำลังทำงานอยู่ ซึ่งแต่ละ process จะมี id เรียกรวม ๆ ว่า pid) มาแบ่งทำ เช่น เมื่อ pid1 ทำงานเสร็จแล้วหรือยังไม่ได้ใช้ OS ก็จะไปเรียกให้ pid2 ทำงานแทน ถ้า pid2 ต้องหยุดทำงานเพื่อรอข้อมูลบางอย่าง OS ก็เรียก pid1 มาทำต่อ ซึ่งการกำหนดว่า Process ไหนจะได้ทำก่อนก็ขึ้นอยู่กับว่าผู้ใช้อยากได้ผลลัพธ์ก่อนหรือต้องรอเงื่อนไขเช่นรอ I/O

Multi-user คือมีผู้ใช้มากกว่า 1 คนเข้ามาใช้คอมพิวเตอร์เครื่องเดียวกัน (เช่น log in เข้ามาจากโทรศัพท์มือถือ) OS จะต้องแบ่งทรัพยากรให้ผู้ใช้แต่ละคนทำงานด้วยโดยที่ผู้ใช้แต่ละคนไม่ทราบถึงการแบ่งงานเพราะการสลับจะเร็วมาก (time sharing)

Multi-processing คือ อาจจะมี ship หลายตัวและมีหลาย core การที่มีหลาย core จะทำให้ RAM ถูกเรียกจาก CPU หลายตัว ซึ่ง OS ก็จะมาจัดสรรให้

แต่ก็จะมีงานบางประเภทที่แบ่งไม่ได้ ลองเปรียบเทียบการทำงานของคอมพิวเตอร์กับการซักผ้า การซักผ้าผืนใหญ่เช่นผ้าห่มที่จะต้องมีขั้นตอนแช่ ซัก ล้างผงซักฟอก ตาก รีด การทำงานที่รวดเร็วจะต้องเอาคนหลาย ๆ คนมาช่วยกันทำตั้งแต่ขั้นตอนแรกไม่ใช่เอาคนไปรอประจำจุดตามแต่ละขั้นตอน

แต่ถ้าเป็นผ้าผืนเล็กหลาย ๆ ผืน การทำงานที่รวดเร็วจะเปลี่ยนไป การเอาคนไปรอประจำจุดตามแต่ละขั้นตอนจะเร็วกว่า

ในทางคอมพิวเตอร์ที่มีกรณีคล้าย ๆ กับผ้าห่มผืนใหญ่เช่นหา 100! การมี CPU 12 ตัว การจะให้ CPU

* ตัวที่ 1 คูณตั้งแต่ 1 ถึง 8
* ตัวที่ 2 คูณตั้งแต่ 9 ถึง 16
* ตัวที่ 3 คูณตั้งแต่ 17 ถึง 24
* ไปต่อ ๆ เรื่อย
* ตัวที่ 12 คูณตั้งแต่ 92 ถึง 100

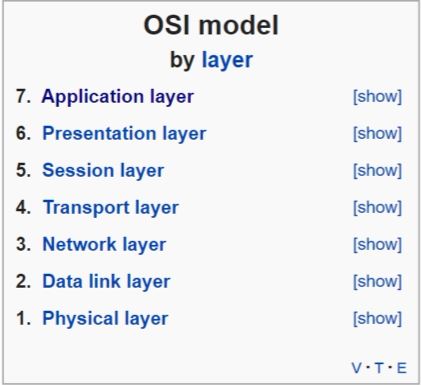
แบบนี้สามารถทำได้แต่งานแบบอื่นบางงานที่ไม่ใช่การคูณธรรมดาจะทำไม่ได้ ซึ่ง OS จะกำหนดว่างานแบบไหนทำได้และงานแบบไหนทำไม่ได้

นอกจากนี้ OS ยังมีหน้าที่เกี่ยวกับความปลอดภัยอีก (เช่น Firewall , user log in)

**NETWORK**

การแบ่งงานกันทำในคอมพิวเตอร์ มันยากมากที่จะมีโปรแกรมเมอร์ที่รู้ทุกอย่างแบบละเอียดเช่น คนเขียนโปรแกรมธุรกิจก็ควรจะรู้เรื่องธุรกิจมากกว่ารู้ว่า compiler ทำงานยังไง แล้วก็จะมีคนอื่นที่เขียน compiler ไว้ให้ คนที่สร้าง CPU ก็กำหนด instruction set ให้คนอื่นเอาไปใช้โดยไม่จำเป็นต้องใช้เฉพาะกับด้านธุรกิจ

ในส่วนของ network ก็มีการแบ่งงานกันทำโดยมี OSI model (Open system interconnection model) ซึ่งบอกว่าคุณสมบัติของแต่ละ layer คืออะไร (เพราะ network ใหญ่มากเกินกว่าที่คน ๆ เดียวจะศึกษาได้ทั้งหมด) และแต่ละ layer เป็นการบอกว่าตอนนี้เราอยู่ตรงไหน กำลังทำอะไร



แต่ละ layer จะรับผิดชอบไม่เหมือนกัน เวลาที่คอมพิวเตอร์สองเครื่องคุยกันก็จะคุยกันใน layer เดียวกันเท่านั้นไม่มีการข้าม layer และ layer ที่อยู่บนก็จะสั่งงาน layer ที่อยู่ล่างลงมาและ layer ล่างก็จะแสดงผลกลับขึ้นไปที่ layer บน

![รูปภาพประกอบด้วย โต๊ะ

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RE6RXhpZgAATU0AKgAAAAgABAE7AAIAAABBAAAISodpAAQAAAABAAAIjJydAAEAAAAuAAARBOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOC4iuC4suC4meC4meC4l+C4o+C5jCDguYDguKvguKXguLfguK3guIfguJvguKPguLDguYDguKrguKPguLTguJAAAAAFkAMAAgAAABQAABDakAQAAgAAABQAABDukpEAAgAAAAM4NAAAkpIAAgAAAAM4NAAA6hwABwAACAwAAAjOAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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เวลาที่จะส่งข้อมูลลงไปในแต่ละ layer ก็จะมีคำสั่งของแต่ละ layer (ทั้ง 7 layer) ครอบข้อมูลอยู่ แล้วส่งลงไปตาม layer แล้วฝั่งรับก็จะแกะออกทีละชั้นจนเหลือแต่ข้อมูล (ซึ่งการแบ่งแบบนี้ใช้เพื่อการศึกษาเท่านั้น)

จะมีอีก model ที่มีชื่อว่า TCP/IP หรือ internet protocol suite