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Machine Problem  $a^n b^n c^n$~~   
TOC Lec 42-Turing machine  
example -  $a^n b^n c^n$  by

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~~Problem-Subtraction Turing  
Machine as Problem Solvers  
Turing Machine for  $L = \{ a^n * b^n \}$  | Turing Machine for equal  
number of a's and b's Variations  
of Turing machine Turing  
Machines Alan Turing: Crash  
Course Computer Science #15~~

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- A Flock of Functions: Lambda

Calculus in JavaScript

1.Programming Techniques for

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Turing Machine Construction

Turing \u0026amp; The Halting

Problem - Computerphile Turing

machine(0<sup>n</sup>1<sup>n</sup>) How the

\\"Most Human Human\\" passed

the Turing Test The Halting

Problem - An Impossible Problem

to Solve Halting Problem in



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Python - Computerphile Turing  
Machine Programming  
Techniques (Part 1)

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TOC Lec 44-Turing machine  
example - Multiplication Problem  
Note- Transition for  $q_5$  to  $q_5$  is  
 $y/1L$

---

Part 66

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#TuringMachinefora^n^n #TuringMachineasLanguageAcceptor  
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45-Subtraction problem of Turing  
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Impossible Programs (The Halting  
Problem) Turing Machines  
Explained - Computerphile Turing

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machines explained visually

halting problem | Turing

Machine(TM) | TOC | Lec-95 |

Bhanu Priya ~~Solutions For Turing~~

~~Machine Problems~~

)Turing-Recognizable languages

are closed under  $\cup$ ,  $\cap$ ,  $*$ , and  $\bar{\phantom{x}}$

(but not complement! We will see

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this later)) Example: Closure under  
□ Let  $M_1$  be a TM for  $L_1$  and  $M_2$  a TM for  $L_2$  (both may loop) A TM  $M$  for  $L_1 \cap L_2$ : On input  $w$ : 1. Simulate  $M_1$  on  $w$ . If  $M_1$  halts and accepts  $w$ , go to step 2. If  $M_1$  halts and rejects  $w$ , then REJECT  $w$ . (If  $M_1$  loops, then  $M$

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~~Solving Problems with Turing  
Machines~~

Universal Turing Machine A  
universal Turing machine (UTM) is  
a Turing machine that can  
execute other Turing machines by  
simulating the behaviour of any

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Turing machine. If a sequence is computable then a UTM will be able to execute it. A UTM behaves as an interpreter which is just what a PC does when it runs a Java applet or Flash script.

~~Problem Solving: Turing Machines~~

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~~Wikibooks, open books...~~

Every decider is a Turing machine, but not every Turing machine is a decider. Thus  $R \not\subseteq RE$ . Hugely important theoretical question:  $R \subseteq RE$  That is, if you can just confirm “yes” answers to a problem, can you necessarily

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~~Turing Machines — Stanford  
University~~

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computability theory, the halting  
problem is the problem of



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determining, from a description of an arbitrary computer program and an input, whether the program will finish running, or continue to run forever. Alan Turing proved in 1936 that a

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ebook to have.

~~Solutions For Turing Machine  
Problems Peter Linz ...~~

Attempt to move to the left. If the  
head is still over the special  
symbol, the leftward move did

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not succeed, and the head must have been at the left-hand end. If the head is over a different symbol, some symbols are to the left of that position on the tape 3. Restore the changed symbol before moving to the left.

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## ~~Examples of Turing Machines~~

The Church-Turing thesis claims that any computable problem can be computed by a Turing machine. This means that a computer more powerful than a Turing machine is not necessary to solve computable problems.

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The idea of Turing completeness is closely related to this. A system is Turing complete if it can compute every Turing computable function.

~~Turing Machines | Brilliant Math &  
Science Wiki~~

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Homework 17 Turing Machines 4  
6. The idea is to start with the rightmost character of  $w$ , rewrite it as a blank, then move two squares to the right and plunk that character back down. Then scan left for the next leftmost character, do the same thing, and

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so forth.  $\{L, a\} \subseteq R \subseteq L$

~~CS 341 Homework 17 Turing  
Machines~~

To find the solution of this problem, we can easily devise an algorithm that can enumerate all the prime numbers in this range.



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Now talking about Decidability in terms of a Turing machine, a problem is said to be a Decidable problem if there exists a corresponding Turing machine which halts on every input with an answer- yes or no.

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~~Theory of computation |~~  
~~Problems Peter Linz~~

~~Decidable and undecidable  
problems ...~~

Exercise 8.2.3: Design a Turing machine that takes as input a number  $N$  and adds 1 to it in binary. To be precise, the tape initially contains a \$ followed by  $N$

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in binary. The tape head is initially scanning the \$ in state  $q_0$ . Your TM should halt with  $N + 1$ , in binary, on its tape, scanning the leftmost symbol of  $N + 1$ , in state  $q_f$ .

~~CS 281 Homework 1 Solutions~~

*Page 27/43*

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## ~~Exercise 8.2.2: Design ...~~

Download Free Solutions For Turing Machine Problems Peter Linz Scan the input from left to right to be sure that it is a member of ; reject if it is not 2. Return the head at the left-hand end of the tape 3. Cross off an

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and scan to the right until a  
occurs. Shuttle between the 's  
and Examples of Turing Machines  
Give a Turing

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Homework 3 Practice Problem

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Problem - Tutorialspoint Solutions  
for Homework Six, CSE 355 1. 8.1,  
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the Final I. - Cornell University  
43-Turing machine problem  
Palindrome by Deeba Kannan  
pract final sol - Computer Science

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Computer Action Team Solutions  
to Problem Set 4 - EECS at UC  
Berkeley Halting Problem ...

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x = input() while x: pass. It reads

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the input, and if it's not empty, the program will loop forever. Thus, if the input is empty, the program will terminate and the answer to this specific question is "yes, this program on the empty input will terminate", and if the input isn't empty, the program



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will loop forever and the answer is  
"no, this program on this input  
will not terminate".

~~Halting Problem | Brilliant Math &  
Science Wiki~~

In computability theory, the  
halting problem is the problem of

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determining, from a description of an arbitrary computer program and an input, whether the program will finish running, or continue to run forever. Alan Turing proved in 1936 that a general algorithm to solve the halting problem for all possible

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program-input pairs cannot exist.  
For any program  $f$  that might determine if programs halt, a "pathological" program  $g$ , called with some input, can pass its own source and its input to  $f$  and  $t$

~~Halting problem - Wikipedia~~

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Input – A Turing machine and an input string  $w$ . Problem – Does the Turing machine finish computing of the string  $w$  in a finite number of steps? The answer must be either yes or no. Proof – At first, we will assume that such a Turing machine exists

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to solve this problem and then we will show it is contradicting itself. We will call this Turing machine as a Halting machine that produces a ...

~~Turing Machine Halting Problem~~  
~~Tutorialspoint~~

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**Solution:** Let us assume that we can design that kind of machine called as  $HM(P, I)$  where  $HM$  is the machine/program,  $P$  is the program and  $I$  is the input. On taking input the both arguments the machine  $HM$  will tell that the program  $P$  either halts or not.

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~~Halting Problem in Theory of  
Computation - GeeksforGeeks~~

Turing reduced the question of the existence of a 'general method' which decides whether any given Turing Machine halts or not (the halting problem) to the

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question of the existence of an  
'algorithm' or 'general method'  
able to solve the  
Entscheidungsproblem.

~~Entscheidungsproblem~~

~~Wikipedia~~

there is an in nite-state Turing



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machine deciding  $L$  in linear time.  
Solution: Perhaps the most natural way to decide a language or compute a function is to use a "lookup table", which tells you the answer for each possible input. This is not typically useful unless you're dealing with finite

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languages or functions, because Turing machines as they're usually defined have a finite description.

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