TEST CODE 04234011

MARCH 2011

FORM SEA/2011

CARIBBEAN EXAMINATIONS COUNCIL

TRINIDAD AND TOBAGO

SECONDARY ENTRANCE ASSESSMENT

MATHEMATICS

75 minutes

PRIMARY SCHOOL:_____

CENTRE NUMBER:_____

CANDIDATE NUMBER

READ THE FOLLOWING INSTRUCTIONS CAREFULLY.

1. This test is divided into THREE sections.

- 2. Make sure that you understand the directions before you start to work on any section.
- 3. Write ALL your answers in this test booklet. Show ALL your working in the Working Column.
- 4. DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

Directions for the Mathematics Test

You are NOT allowed to use calculators.

This test has THREE sections with a total of 46 test items.

SECTION I has 20 items (Nos. 1 to 20).

SECTION II has 20 items (Nos. 21 to 40).

SECTION III has 6 items (Nos. 41 to 46).

You have 75 minutes for this test.

Answer ALL questions.

Read EACH question CAREFULLY before answering to

Show ALL working in the column provided

Marks will be given for correct steps taken.

Work carefully but do NOT spend too much time on any one question.

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SECTION I

No.	TEST ITEMS	WORKING COLUMN	Do N Writ Her			
1.	Calculate:			KC	AT	PS
	1996 - 684					
	Answer		1.			
2.	Write in words: 12 540					
	Answer					
	·		2.			
3.	A starfish has 5 arms as shown below.					
	How many arms will 16 starfish have?					
	Answer arms		3.			
4.	Write 8.74 to the NEAREST tenth.		4.			

?

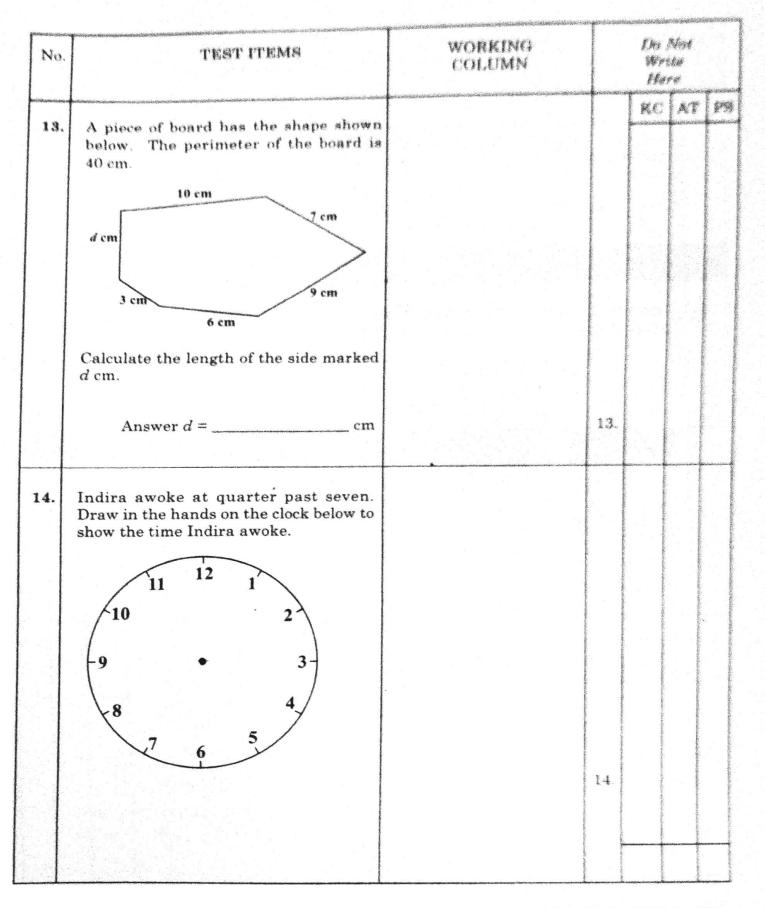
EACH question is worth 1 mark. Answer ALL questions. Show ALL working in the Working Column.

No.	TEST ITEMS	WORKING COLUMN		Do 1 Wri Her	te	
5.	Arrange the fractions below in ASCENDING order. (Begin with the SMALLEST.) $\frac{1}{4} \frac{1}{12} \frac{1}{3} \frac{1}{6}$			KC	AT	PS
	Answer		5.			
6.	Jamie divides an orange into 12 equal slices.					
an - shown a shire a s						
يى بىرى يېرى بىرى يېرى يېرى يېرى يېرى يېرى يېرى يېرى ي	She gives $\frac{3}{4}$ to her friend. How many					
a series a series and s	slices does Jamie give to her friend?					
	Answerslices		6.			
and and and an and and						

No.	TEST ITEMS	WORKING COLUMN	Do l Wri Her			
7.	The whole shape below is divided into the portions shown.			KC	AT	P
	30% 10% x% x% What number does x represent? 0/		7.			
	Answer%					
8.	Ms Mohammed is paying cash for the TV and receives a 20% discount. Cash Price - \$520					
	Calculate the amount of this discount.					
	Answer \$	Telephone Sector State Sector	8.			
ON	OT WRITE HERE KC (2) AT	(4) PS (2)	OTA	L (8)		
).	A rope is 2.5 m long. What is its length in centimetres?					
	Answer cm		9.			
6.5						

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here				
10.	How many quarters (25¢ coins) will Tori get in exchange for a \$5.00 note?			KC	AT	PS	
	Answer quarters	nigoze na naga sebian ana sa	10.				
11.	Sam bought a book for \$3.75. He sold it for \$5.25. How much profit did he make?						
	Answer \$		11.				
12	The width of the rectangular card below is 4 cm. The length, x cm, of the card is twice the width.						
	4 cm						
	* ***						
	Calculate the area of the card.						
	Answei cm ²		12.				

And a second design of the second second



No.	TEST ITEMS	WORKING COLUMN		Do Not Write Here			
15.	School starts at 8:45 a.m. Sally arrived half of an hour late. What time did she arrive at school?	gan ginne Allerien (2007) - Allerie Stringen genoem an de Angele (2007) - Angele (2007) - Angele (2007) - Ange		KC	AT	P	
	Answera.m.		no actor alternative annual en		de compositione este un manifeste de la manifestación de	anomice the side of the state of the side of the	
001	NOT WRITE HERE KC (2) AT	4) PS (1) '	EQTA	L (7)		la lan ministra	
16.	Draw the line or lines of symmetry in the plane shape below.						
			16.		a gao G. Jahan M. Collin Liver any readed Shock A		
7.	Sajani is facing the North. She turns CLOCKWISE to face the East. Through how many degrees has Sajani turned?						
	Answer degrees		17.	Anyora Harandi Daviana kuma na mangata nganga ngangangangangangangangangangangangangan			
				A sevel-mentioned and sectors and a second sector and a second sector and a second sector and a second sector a			

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
18.	In the diagram below, the two angles labelled ' a ' are equal. Calculate the value of ' a '.			KĊ	AT	149
	50° a° a°				on a serie de la constante de s	
	Answer $a = $ degrees	() PS (I)	18. TOTA	1-18		a institution of the last of the
	NOT WRITE HERE KC (1) AT (-
19.	The graph below shows the number of children buying ice-cream from Monday to Friday.					
	Number of children keyesure the second of th					
	represents 14 children					And
	How many MORE children bought ice- cream on Monday than on Wednesday?					
	Answer children		19	•		

No.	TEST ITEMS	WORKING COLUMN		Do Not Write Here		
20.	The pie chart below shows the favourite sports of the students of Standard 4. $ \begin{array}{c} \hline $	1) PS (1) T	20.	Her KC	AT	23

SECTION II

No.	TEST ITEMS	WORKING COLUMN		W,	Not rite ere	Marrielykilosoff oc
21.	Calculate:	ne men en e		KC	AT	PS
æ	$16 \frac{1}{5} + 2 \frac{7}{10}$					ومعر مقدم المراجع
	Answer(2 marks)		21.			
22.	Ravi has 56 marbles. Scott has half as many as Ravi. How many marbles do they have ALTOGETHER?					والمحتفظ والمستخد والمحتوث والمتحاجة والمتحاد والمحادية والمحادي والمحادي والمحادي والمحادي والمحاد
	Answer marbles (2 marks)		22.			
23.	In a speed-reading competition, Anna read 10 pages for every 7 pages that Kevin read. At the end of the competition, Kevin read 140 pages. How many pages did Anna read?					وتجاهدها والمحاصبة والمحاصرة والمحاصرة والمحاصرة والمحاصرة والمحاط المحاصرة والمحاصرة والمحاصرة والمحاصرة والم
	Answer pages (2 marks)		23.			ومعتبه فالمواجعة والمراجعة والمحاجبة والمحاجبة والمحاجمة والمحاجمة والمحاجمة والمحاجمة والمحاجمة والمحاجمة ومراجع

EACH question is worth either 2 or 3 marks. Answer ALL questions. Show ALL working in the Working Column.

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here				
24.	Tom sets out on a journey of 1 km. He ran $\frac{1}{3}$ km and then walked $\frac{3}{5}$ km. What			KC	AT	PS	
	fraction of the journey did Tom still have to travel to complete 1 km?					nontral de la marca a la contra de la contra d	
	Answer (2 marks)		24.				
25.	There were 15 weeks in the school term. Paul went to school for the first 2 weeks and was absent the next week. This pattern was repeated throughout the whole term. For how many weeks was Paul present during the term?						
	Answerweeks (3 marks)		25.				
26.	 (a) Write in the box below the sign, > or <, that CORRECTLY completes the number sentence. 				and a second		
	$\frac{3}{4}$ $\frac{2}{3}$						
	(b) Find the difference between						
	$\frac{3}{4}$ and $\frac{2}{3}$.			Andrew Service and Andrew Ser	ay selation dependent processing of the select of the sele		
	Answer(3 marks)		26.	erener salten igen ister samme			

No.		TEST ITEN	48	WORKING COLUMN		Do Wr He	ltø	CARDAN - COM
27.	Complete the the CORREC fraction at (b	e table below b CT percentage)).	y writing in at (a) and			KC	AT	PS
	Fraction (lowest term)	Percentage	Decimal					
	$\frac{2}{3}$	(a) %						
	(b)		0.005					
	Lanna an		(3 marks)		27.			
28.	14(a)Write numberAr(b)What is this number	mber pattern b 9 in the TWO s. nswer the NINTH n nber pattern? wer	36 D missing (2 marks) umber in		28.			
20 N	ot write Hi	ERE KC (5)	(1 mark) AT (10)	PS (5) T	OTAL	(20)		

No.	TEST ITEMS	WORKING COLUMN		Do l Wri Hei	te	
				KĊ	AT	P ?
						Contract Medication
29.	A food vendor made $7\frac{1}{2}$ litres of soup for					olijalo malakoja
	sale. She sells the soup in servings of					on Aprening Dates
	375 ml.					disso visco de solo
	R and a second s				Constant of Constants	and a second second
	e p					
	7 ½ L 375 ml					
	How many servings of soup can she get					
	from the $7\frac{1}{2}$ litres?					
	Answer servings (2 marks)		29.			
30.	The combined weight of Jane and her sister, Nora, is 51.4 kg. If Jane is 5.6 kg heavier than Nora, how much does Nora weigh?		nini antoni antoni antoni in ta dimensione			
	Answer kg (2 marks)		30.			

No.	TEST ITEMS	WORKING COLUMN	Do No Write Here	t
31.	The sides of triangle PQR are equal in length. The perimeter of PQR is 21 cm. Image: product of point of p		Here	
				an gouine church churche church

No.		TEST ITEMS	WORKING COLUMN	COLUMN Wr He			
32.		volume of the cuboid fish tank shown w is 72 000 cm ³ . B ³ 30 cm			KC	AT	
	(a)	What is the area of its base labelled B?					
	(b)	(1 mark) How deep is the fish tank?			The second se	i shanjati i shi Yi ni i shi kanan man ishi na mati shekari shekari shekari shekari s	
	(c)	Answer cm (1 mark) Calculate the area of the shaded		A the set of a same fair many interest and the set of a same fair fair of the set of the	An an She Mary an ann an She Mary She Mary She Mary She	e de sant de la prover ser an ar la la certa de las proves de la	
		side A. Answer cm ² (1 mark)	,	32.	risk (reference) men og en som offeren er men og en segenderer	nie 1966 jako brazili i meteorie na obeb ziele jako za obe	
					an sanati na pangangan na sanati na sana	ى بى يېزىكى بىلىكى ئېلىكى ئېلىكى ئېلىكى يېلىكى ي يېلىكى يېلىكى يېلىكى يېلىكى يېلىكى	
					din siya a fanda mis de sont can ge en este en egen jewe	na shi muni a ƙwalton in a si busa sa sanganti sa sa sa	
					ny sinanya kata kan ban ɗaran ya sa sa sa sa sa sa sa sa sa	nament som ver hag som andersometigen skandige at den som	nan-rappining panya menangka tida nanyangkan jaga jaga
						en una constructiva de la construcción de l	

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
33.	Chelsea bought some items at Reflex Clothing Store. Her bill is shown below. Some values are not stated.		KC AT PS
	Reflex Clothing Store		
	Quantity Item Unit Cost Cost		
	1 Track Pants @ \$55.00 \$55.00		
	3 T-shirts @ \$20.00		
	5 Handkerchiefs @ \$4.00 \$20.00		
	Total before VAT \$135.00		
	VAT 15%		
	Total Cost after VAT		
	Calculate		
	(a) the cost of the 3 T-shirts		
	Answer \$ (1 mark)		
	(b) the VAT on her total bill		
	Answer \$ (1 mark)		
	(c) the TOTAL cost after VAT.		
	Answer \$ (1 mark)		33.

No.		TEST ITEMS	WORKING COLUMN		Do I Wri Hei	le	
34.	20 t belo 1.5 c (a)	e designed a gold chain by using hin gold circles arranged as shown ow. Each circle has a radius of cm. Image: Comparison of the diameter of EACH circle? What is the diameter of EACH circle? Answer Diameter = (rm (1 mark)) Calculate the length, L cm, of the chain. Image: Answer L = (rm (1 mark)) Shae needs a matching bracelet to measure 18 cm in length. How many circles are needed? Imark	COLUMN	34.	Hei		

No.	TEST ITEMS	WORKING COLUMN		Do 1 Wri Hei	te	
35.	The entrance fee to a cricket match was \$12 for a teacher and half-price for a \$ student. A group of 20 students and 3 teachers went to the match. Calculate the TOTAL entrance fee for the group.			KC	AT	PS
	Answer \$(3 marks)		35.			
DO	NOT WRITE HERE KC (4) AT (10) P\$ (4) T(DTAI	(18)		

No.	TEST ITEMS	WORKING COLUMN		Dei I Wri Hei	te	
		· · · · · · · · · · · · · · · · · · ·		KC	AT	PS
36.	The gauge needle on a welder's gas tank moves in the direction of the arrow shown below.		ne forder i fordere a de la forde de l			
	$ \begin{array}{c} $				n en service and the structure for each in the structure is a structure and a structure of the structure of the	
	START (a) How many degrees does the needle turn through from START to 8?		na serie de serie de la constante de serie de serie de serie de serie de serie de serie de series de series de		والمتواجعة والمحافظة	
	Answer degrees (1 mark)				er sen betalak dari bergan bergan bergan bergan ber	
	(b) The needle moves from 0 through 135 degrees. Where is the new position of the needle?		nar se na se	de manader fra i de la constance de la constanc	د به مراقع میرد. این می از استان این و از میدر در به این میرد این میرد. از این میرد در این میرد در این میرد در این میرد این میرد در این میرد در این میرد در این میرد این میرد در این می	والبرغ والمحدد بالداخل المانتيان (حمارت ما الملك المالية المالية المالية المالية المالية المالية الم
	Answer (1 mark)		36.	ndina ing nati kan pangan ang ang ang ang ang	er se fan de ser se	والمحالة المحافظة والمحافظة والمحافظة والمحافظة والمحافظة والمحافظة والمحافظة والمحافظة والمحافظة والمحافظة
	· · · · · · · · · · · · · · · · · · ·				ritini, mananini kataran induktor ang s	ور دولیستان وکندی دوسته کامل اصوری تعدید به رادید که از مک
					naa kata walana katala maka kutu kutu kutu k	feliti ondres Kirnaktinging data sheri sumit 1947 m
	Constant and the second second					-

No.	TEST ITEMS	WORKING COLUMN		Do Wr He	lle	nin (Karpatra)
37.	The triangle XYZ is moved to the position of triangle PQR.			KC	AT	PS
	(a) Name the movement. Answer	i i i i i i i i i i i i i i i i i i i				وبدعا والله الموادقا والمواد والمعالم المحالي المحالي المحالي المحالي المحالي المحالي المحالي المحالي المحالي
	Answer(1 mark)		37.		والمحمد	
		- -				na versi de la constante de la

No.	TEST ITEMS	WORKING COLUMN		Do I Wri Hei	he	AB920428040
38.	Refer to the diagram below to answer the questions that follow.			KC	AT	
	(a) Name an angle less than 90°. Answer(1 mark)			ى دىرىت سىرىتىرىتىنى تىرىكى بىلىرىتىنى بىلىرىتىنى بىلىرىتىنى بىلىرىتىنى بىلىرىتىنى بىلىرىتىنى بىلىرىتىنى بىلىرى بىلىرىتى بىلىرىتىنى بىلىرىتىنى بىلىرىتىنى بىلىرىتىنى بىلىرىتىنى بىلىرىتىنى بىلىرىتىنى بىلىرىتىنى بىلىرىتىنى بىل	n manana ka wang na jang bagi ka pang na mang na bagi ka pang na pang na pang na pang na pang na pang na pang n	
	(b) Which angle is APPROXIMATELY one-third of a whole turn?		rente - en el territorio de la composición de la composición de la composición de la composición de la composic	and special and set and a set of the set of t	s, bis internet and the speed of the design of the second part of the second parts of the second parts of the s	
	Answer (1 mark) (c) Which angles TOGETHER have the SAME measure as a half turn?			randeri - San Andrea, Marchald, Kasaria and Lana and Andrea. Na san ang Andrea.	والمحاولة المراجع المحاولة الم	
	Answer(1 mark)		38.	a a da a sensitive sur i da de sensitive à redenção de sense e indenção de sensitive	gar y de y en in sich en eksnegele di er try, oek ontwek en op de gerege	
				ritarin enzonan an debra de baga dan marin dan parte a andara dan debra dan dari dan dari dari dari dari dari d	مترسمه بالارتبال المراجع المراجع المراجع المحاصر والمحاصر والمحاصر والمحاصر والمحاصر والمحاصر والمحاص	
				والمروبية المتعالمات والمراجع المراجع المحاصر والمحاصر والمحاصر والمحاصر والمحاصر والمحاصر والمحاصر والمحاصر والمحاصر	to same-stope all of -solid print care to this stands out - All Address - solid engels	 In the second s Second second sec second second sec
					Notice and the second sec	

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
39.	XY is a line of symmetry of the incomplete figure ABCD shown below. X <th></th> <th>39.</th>		39.
DO NO	OT WRITE RERE KC (2) AT (5) PS (3) TO	PARE (10)

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No.	TEST ITEMS	WORKING COLUMN		Do I Wri Hei	te	
40.	The incomplete graph below shows the marks that John scored in Mathematics each day during a particular week.			ĸc	AT	
	Marks ²⁵ 20 15 10 5 Nim ^{ta3} Tu ^{sata3} Viennes ^{da3} Tu ^{rsata3} Frita ³					
	John scored a total of 80 marks for that week. Complete the graph to show how many marks he scored on Friday. (2 marks)		40.			

GO ON TO THE NEXT PAGE

SECTION III

EACH question is worth 5 marks. Answer ALL questions. Show ALL working in the Working Column.

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
41.	Jamie uses dots to create a set of patterns as shown below.		KC AT PS
	Answer dots (1 mark) (b) Draw the FIFTH and SIXTH patterns in the space on the diagram. (2 marks) (c) How many dots are in the EIGHTH pattern?		
	Answerdots (2 marks)		41.

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
42.	A farmer harvested 600 peppers from his garden. He sold 90% of the peppers and gave the remainder to a children's home.		KC AT P
	(a) (i) Calculate the number of peppers the farmer sold.		
	Answer peppers (2 marks)		
	(ii) How many peppers did he give away?		
	Answer peppers (1 mark)		
	(b) The farmer sold the peppers at 5 for \$8.00. Calculate how much money he made from the peppers sold in Part (a).		
	Answer \$(2 marks)		42.
ON	OT WRITE HERE KC (3) AT (5)	PS (2) T	OTAL (10)

No.		TEST ITEMS	WORKING COLUMN		Do . Wri He	te	
43.		Brown borrowed \$1200 at 20% simple erest for 2 years.			KC	AT	Ps
	(a)	How much interest did she pay?					
		Answer \$(2 marks)		Since the second second second second			
	(b)	How much money did she repay ALTOGETHER?			Al der Anders of the second	rador de la constante de la con	
		Answer \$(1 mark)				stability of a strange strange with the	
	(c)	Ms Brown repaid the TOTAL amount in EQUAL monthly payments.					and the second
		How much did she pay EACH month?				ne des exemples de specific que de su este situenes	
		Answer \$(2 marks)		43.			ร้างสีระบัดสารไป เดียวเป็นสารครับสูงรูปเป็นสุขภูมชน
					indiana da ang singana pada na wag	er new in a chart week forget in the same	
							an a
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						n prime na prime de la constante de la constant	and the second second second second

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44.	Us	e pictures tebooks, er \$1.50 each e the informow.	asers an Note Book	Er 2 for Pe 2(KC	AT			
	Number of Items Total											nan ta basi sa sa sa	
		Notebooks	Erasers	1	Cost					allowed water and		a serie and a series of	
	(a)	3	6	15		а 			Sichandriven (SBF) der einzepätig auf Sichand				
	(b)	3	· · · · · · · · · · · · · · · · · · ·	15	\$10.00								
				(5 marks)			er en an er eine der beite eine an eine einen eine bestellte son als eine einen der eine bestellte eine eine ei	44.				
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								er virmer (program tilde) i het inder de en werde verse de men de demons					
								1		(mapping) and	to man docum		

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No.		TEST ITEMS	WORKING COLUMN		Do Not Write Here				
45.	Iten	n 45 refers to the figure below.			KC	AT	PS		
	(a)	Draw TWO lines on the figure above so that it forms the net of a solid. (2 marks)		randa kana ani ang sa king Chinata pang na pang ki		na konstruiten eta era era era era era era era era era er	indeksen kongelende en die Kanada gesten		
	(b)	Name the solid formed when the net is folded.							
		Answer (1 mark)							
	· (c)	The solid formed has							
		edges and vertices.	-				an man in the state		
		(2 marks)		45.	an a				
							And the second second second		
DON	VOT WI	RITE HERE KC (1) AT (2) PS (2) T(OTAL	(5)	<u> </u>			

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6.			red by S e table b		5 games			KC	AT	P	
	Game 1	Game 2	Game 3	Game 4	Game 5						
	34	29	43	34	55						
	· · ·	hat is pints sco		dal nur	nber of						
		Ans	swer	(1	mark)						
			the me red for a		nber of				ri mali babiya ina na mana inga mana an		
		Ans	wer		narks)				oris en esta successiva de la composición de la		
			score fo late his			5 g.					
		An	.swer	(2 n	narks)		46.	artinan dan seria da mendekan kana kana			
		a K							يعارضون والمحافظ والم		
								meneration in additioned in the process stud			
N	OT WRI	VB HIDR	ERC	(1)	ÁT (2)	PS (2)	TOTAL	1923C	a sere and a series of the ser		

END OF TEST

IF YOU FINISH BEFORE TIME IS CALLED, CHECK YOUR WORK ON THIS TEST.