Transducer		INPUT	EXPECTED OUTPUT
step1	1	ABCDEFGHIJKLMNOPQRSTUVWXYZ	ABCDEFGHIJKLMNOPQRSTUVWXYZ
	2	AABBCCDDEEFFGGHHIIJJKKLLMMNNOOPPQQRRSSTTUUVVWWXXYYZZ	ABCCDEFGHIJKLMNOPQRSTUVWXYZ
	3	A	A
	4	AAZZ	AZ
	5	AZZ	AZ
	6	ZZ	Z
	7	Z	Z
	8	ACCORDING	ACCORDING
	9	RUSSIAN	RUSIAN
	10	MIDDLE	MIDLE
	11	STEEL	STEL
	12	DOG	DOG
	13	SNIFF	SNIF
	14	SMALL	SMAL
	15	COMMERCIAL	COMERCIAL
	16	TROOPS	TROPS
	17	SUPPORT	SUPORT
	18	ATTACK	ATACK
	19	CCA	CCA
	20	ACC	ACC
step2	1	ABCDEFGHIJKLMNOPQRSTUVWXYZ	ABCDEFGHIJKLMNOPQRSTUVWXYZ
•	2	WRAPPERS	RAPPERS
	3	KNEW	NEW
	4	GNAWER	NAWER
	5	PNEUMATIC	NEUMATIC
	6	AERIAL	ERIAL
	7	BREADCRUMB	BREADCRUM
	8	WWRAPPERS	WWRAPPERS
	9	KKNEW	KKNEW
	10	GGNAWER	GGNAWER
	11	PPNEUMATIC	PPNEUMATIC
	12	AAERIAL	AAERIAL
	13	BREADCRUMBB	BREADCRUMBB
	14	WRAPPERSWR	RAPPERSWR
	15	KNEWKN	NEWKN
	16	NGAWER	NGAWER
	17	NPEUMATIC	NPEUMATIC
	18	AERIALAE	ERIALAE
	19	BREADCRUMBA	BREADCRUMBA
	20	K	K
step3	1	ABCDEFGHIJKLMNOPQRSTUVWXYZ	ABKDEFGHIJKLMNOPQRSTUVWXYZ
	2	PRONUNCIATION	PRONUNXIATION
	3	SCHOOL	SKHOOL
	4	PUTSCH	PUTSKH
	5	VICIOUS	VISIOUS
	6	CULTURE	KULTURE
	7	CROSSCHECK	KROSSKHEKK
	8	CIABATTA	XIABATTA
	9	MALACIA	MALAXIA
	10	ANNUNCIATE	ANNUNXIATE
	11	CHAFF	XHAFF
	12	ANARCH	ANARXH
	13	CYBERNETICIAN	SYBERNETIXIAN
	14	ABDUCE	ABDUSE
	15	ABUNDANCY	ABUNDANSY
	16	CYAN	SYAN
	17	CICYAN	SISYAN
	18	CICYANCE	SISYANSE
	19	CICYACNCE	SISYAKNSE
	20	C	K
step4	1	ABCDEFGHIJKLMNOPQRSTUVWXYZ	ABCTEFGHIJKLMNOPQRSTUVWXYZ

	3	FUDGY	FUJGY
	4	WEDGY	WEJGY
	5	WEDGYFUDGY	WEJGYFUJGY
	6	BADGING	BAJGING
	7	DODGING	TOJGING
	8	DGIN	JGIN
	9	DDGIN	TJGIN
	10	ABDUCED	ABTUCET
	11	DAMAGED	TAMAGET
	12	BRIDGE	BRIJGE
	13	PLEDDGES	PLETJGES
	14	FUDGY	FUJGY
	15	ADD	ATT
	16	AID	AIT
	17	DAD	TAT
	18	DDADD	TTATT
	19	DD	π
	20	D	Т
step5	1	ABCDEFGHIJKLMNOPQRSTUVWXYZ	ABCDEFHIJKLMNOPQRSTUVWXYZ
•	2	FIGHT	FIHT
	3	FOREIGN	FOREIN
	4	FOREIGNA	FOREIGNA
	5	SIGNED	SINED
	6	SIGNEDA	SIGNEDA
	7	FIGH	FIGH
	8	DGIN	DGIN
	9	GHETTO	HETTO
	10	HIGHLIGHT	HIHLIHT
	11	HIGHLIGH	HIHLIGH
	12	HGHGHGHGH	ННННН
	13	HGHHGHHGHHGH	НННННННН
	14	HGGHG	HGHG
	15		
	16	ALTHOUGH	ALTHOUGH AIRTIHT
	17	AIRTIGHT GNOMOLOGY	
			GNOMOLOGY
	18 19	GGHGG GG	GHGG GG
	20	G	G
	20	<u> </u>	9
step6	1	ABCDEFGHIJKLMNOPQRSTUVWXYZ	ABCDEFGHIJKLMNOPKRSTUVWXYZ
	2	BACKPACK	BAKPAK
	3	LUCK	LUK
	4	FIHT	FIT
	5	GRAHAM	GRAHAM
	6	QUITE	KUITE
	7	SHOULD	XHOULD
	8	COMISIONER	COMIXIONER
	9	AMORPH	AMORF
	10	ENCEPHALOGRAPH	ENCEFALOGRAF
	11	PHILOSOPHIZER	FILOSOFIZER
	12	SUQ	SUK
	13	QABALIST	KABALIST
	14	SESQUISQUARE	SESKUISKUARE
	15	AIRBRUSH	AIRBRUXH
	16	MAHARAJAH	MAHARAJA
	17	SIAMESIAA	XIAMEXIAA
	18	AGNOSIA	AGNOXIA
	19	GAUSSIAN	GAUSXIAN
	20	SEAHAWK	SEAHAWK
ston 7	1	ABCDEFGHIJKLMNOPQRSTUVWXYZ	ABCDEFGHIJKLMNOPQRSTUFWXYZ
step7	2	SUBSTANTIAL	SUBSTANXIAL
	3	THE	0E
	5		JL

PLEJGES

2 PLEDGES

	4	MATCH	MACH
	5	HAVE	HAFE
	6	VACANT	FACANT
	7	MAGLEV	MAGLEF
	8	OVERVIVIDLY	OFERFIFIDLY
	9	WHAT	WAT
	10	WWHAT	WWHAT
	11	TIARA	XIARA
	12	PATIO	PAXIO
	13	PATIIO	PATIIO
	14	PATIOO	PAXIOO
	15	OPHTHALMOPATHY	OPH0ALMOPA0Y
	16	ATCHHIN	ACHHIN
	17	ATCHIN	ACHIN
	18	TH	0
	19	T	T
	20	V	F
step8	1	ABCDEFGHIJKLMNOPQRSTUVWXYZ	ABCDEFGHIJKLMNOPQRSTUVKSS
	2	XENON	SENON
	3	SEX	SEKS
	4	LAWN	LAN
	5	BY	В
	6	KEYBOARD	KEBOARD
	7	SIZE	SISE
	8	BUZZ	BUSS
	9	AZOBENZIL	ASOBENSIL
	10	AKARYOCYTE	
			AKARYOCTE
	11	SEXWY	SEKS
	12	XEROX	SEROKS
	13	DOXXED	DOKSKSED
	14	EXOTOXIN	EKSOTOKSIN
	15	AYYWY	Α
	16	ZWWY	S
	17	WWYBYYWA	BWA
	18	WWYAYYWB	YAB
	19	WZZ	SS
	20	Z	S
step9	1	ABCDEFGHIJKLMNOPQRSTUVWXYZ	ABCDFGHJKLMNPQRSTVWXYZ
steba			
	2	USE	US
	3	SEX	SX
	3 4	SEX LAWN	
			SX
	4 5	LAWN OXYMETHYLENE	SX LWN OXYMTHYLN
	4 5 6	LAWN OXYMETHYLENE KEYBOARD	SX LWN OXYMTHYLN KYBRD
	4 5 6 7	LAWN OXYMETHYLENE KEYBOARD SIZE	SX LWN OXYMTHYLN KYBRD SZ
	4 5 6 7 8	LAWN OXYMETHYLENE KEYBOARD SIZE BUZZ	SX LWN OXYMTHYLN KYBRD
	4 5 6 7	LAWN OXYMETHYLENE KEYBOARD SIZE	SX LWN OXYMTHYLN KYBRD SZ
	4 5 6 7 8	LAWN OXYMETHYLENE KEYBOARD SIZE BUZZ	SX LWN OXYMTHYLN KYBRD SZ BZZ
	4 5 6 7 8 9	LAWN OXYMETHYLENE KEYBOARD SIZE BUZZ AZOBENZIL AAKARYOCYTE	SX LWN OXYMTHYLN KYBRD SZ BZZ AZBNZL AKRYCYT
	4 5 6 7 8 9 10	LAWN OXYMETHYLENE KEYBOARD SIZE BUZZ AZOBENZIL AAKARYOCYTE ABONNEMENT	SX LWN OXYMTHYLN KYBRD SZ BZZ AZBNZL AKRYCYT ABNNMNT
	4 5 6 7 8 9 10 11	LAWN OXYMETHYLENE KEYBOARD SIZE BUZZ AZOBENZIL AAKARYOCYTE ABONNEMENT EARTHQUAKE	SX LWN OXYMTHYLN KYBRD SZ BZZ AZBNZL AKRYCYT ABNNMNT ERTHQK
	4 5 6 7 8 9 10 11 12 13	LAWN OXYMETHYLENE KEYBOARD SIZE BUZZ AZOBENZIL AAKARYOCYTE ABONNEMENT	SX LWN OXYMTHYLN KYBRD SZ BZZ AZBNZL AKRYCYT ABNNMNT
	4 5 6 7 8 9 10 11	LAWN OXYMETHYLENE KEYBOARD SIZE BUZZ AZOBENZIL AAKARYOCYTE ABONNEMENT EARTHQUAKE	SX LWN OXYMTHYLN KYBRD SZ BZZ AZBNZL AKRYCYT ABNNMNT ERTHQK
	4 5 6 7 8 9 10 11 12 13	LAWN OXYMETHYLENE KEYBOARD SIZE BUZZ AZOBENZIL AAKARYOCYTE ABONNEMENT EARTHQUAKE IATROPHYSICALLY	SX LWN OXYMTHYLN KYBRD SZ BZZ AZBNZL AKRYCYT ABNNMNT ERTHQK ITRPHYSCLLY
	4 5 6 7 8 9 10 11 12 13 14 15	LAWN OXYMETHYLENE KEYBOARD SIZE BUZZ AZOBENZIL AAKARYOCYTE ABONNEMENT EARTHQUAKE IATROPHYSICALLY ICESKATING OBJECTIONABILITY	SX LWN OXYMTHYLN KYBRD SZ BZZ AZBNZL AKRYCYT ABNNMNT ERTHQK ITRPHYSCLLY ICSKTNG OBJCTNBLTY
	4 5 6 7 8 9 10 11 12 13 14 15	LAWN OXYMETHYLENE KEYBOARD SIZE BUZZ AZOBENZIL AAKARYOCYTE ABONNEMENT EARTHQUAKE IATROPHYSICALLY ICESKATING OBJECTIONABILITY UBIQUITOUSNESS	SX LWN OXYMTHYLN KYBRD SZ BZZ AZBNZL AKRYCYT ABNNMNT ERTHQK ITRPHYSCLLY ICSKTNG OBJCTNBLTY UBQTSNSS
	4 5 6 7 8 9 10 11 12 13 14 15 16	LAWN OXYMETHYLENE KEYBOARD SIZE BUZZ AZOBENZIL AAKARYOCYTE ABONNEMENT EARTHQUAKE IATROPHYSICALLY ICESKATING OBJECTIONABILITY UBIQUITOUSNESS IIKUOETC	SX LWN OXYMTHYLN KYBRD SZ BZZ AZBNZL AKRYCYT ABNNMNT ERTHQK ITRPHYSCLLY ICSKTNG OBJCTNBLTY UBQTSNSS IKTC
	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	LAWN OXYMETHYLENE KEYBOARD SIZE BUZZ AZOBENZIL AAKARYOCYTE ABONNEMENT EARTHQUAKE IATROPHYSICALLY ICESKATING OBJECTIONABILITY UBIQUITOUSNESS	SX LWN OXYMTHYLN KYBRD SZ BZZ AZBNZL AKRYCYT ABNNMNT ERTHQK ITRPHYSCLLY ICSKTNG OBJCTNBLTY UBQTSNSS
	4 5 6 7 8 9 10 11 12 13 14 15 16	LAWN OXYMETHYLENE KEYBOARD SIZE BUZZ AZOBENZIL AAKARYOCYTE ABONNEMENT EARTHQUAKE IATROPHYSICALLY ICESKATING OBJECTIONABILITY UBIQUITOUSNESS IIKUOETC	SX LWN OXYMTHYLN KYBRD SZ BZZ AZBNZL AKRYCYT ABNNMNT ERTHQK ITRPHYSCLLY ICSKTNG OBJCTNBLTY UBQTSNSS IKTC
	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	LAWN OXYMETHYLENE KEYBOARD SIZE BUZZ AZOBENZIL AAKARYOCYTE ABONNEMENT EARTHQUAKE IATROPHYSICALLY ICESKATING OBJECTIONABILITY UBIQUITOUSNESS IIKUOETC UUAAEEIIOOUU	SX LWN OXYMTHYLN KYBRD SZ BZZ AZBNZL AKRYCYT ABNNMNT ERTHQK ITRPHYSCLLY ICSKTNG OBJCTNBLTY UBQTSNSS IKTC U
metanhonel N	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	LAWN OXYMETHYLENE KEYBOARD SIZE BUZZ AZOBENZIL AAKARYOCYTE ABONNEMENT EARTHQUAKE IATROPHYSICALLY ICESKATING OBJECTIONABILITY UBIQUITOUSNESS IIKUOETC UUAAEEIIOOUU AEIOU A	SX LWN OXYMTHYLN KYBRD SZ BZZ AZBNZL AKRYCYT ABNNMNT ERTHQK ITRPHYSCLLY ICSKTNG OBJCTNBLTY UBQTSNSS IKTC U A A
metaphoneLN	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	LAWN OXYMETHYLENE KEYBOARD SIZE BUZZ AZOBENZIL AAKARYOCYTE ABONNEMENT EARTHQUAKE IATROPHYSICALLY ICESKATING OBJECTIONABILITY UBIQUITOUSNESS IIKUOETC UUAAEEIIOOUU AEIOU A ABCDEFGHIJKLMNOPKRSTUVWXYZ	SX LWN OXYMTHYLN KYBRD SZ BZZ AZBNZL AKRYCYT ABNNMNT ERTHQK ITRPHYSCLLY ICSKTNG OBJCTNBLTY UBQTSNSS IKTC U A A A A ABKTFHJKLMNPKRSTFKSS
metaphoneLN	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	LAWN OXYMETHYLENE KEYBOARD SIZE BUZZ AZOBENZIL AAKARYOCYTE ABONNEMENT EARTHQUAKE IATROPHYSICALLY ICESKATING OBJECTIONABILITY UBIQUITOUSNESS IIKUOETC UUAAEEIIOOUU AEIOU A ABCDEFGHIJKLMNOPKRSTUVWXYZ EXOTOXIN	SX LWN OXYMTHYLN KYBRD SZ BZZ AZBNZL AKRYCYT ABNNMNT ERTHQK ITRPHYSCLLY ICSKTNG OBJCTNBLTY UBQTSNSS IKTC U A A A ABKTFHJKLMNPKRSTFKSS EKSTKSN
metaphoneLN	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	LAWN OXYMETHYLENE KEYBOARD SIZE BUZZ AZOBENZIL AAKARYOCYTE ABONNEMENT EARTHQUAKE IATROPHYSICALLY ICESKATING OBJECTIONABILITY UBIQUITOUSNESS IIKUOETC UUAAEEIIOOUU AEIOU A ABCDEFGHIJKLMNOPKRSTUVWXYZ EXOTOXIN OXYMETHYLENE	SX LWN OXYMTHYLN KYBRD SZ BZZ AZBNZL AKRYCYT ABNNMNT ERTHQK ITRPHYSCLLY ICSKTNG OBJCTNBLTY UBQTSNSS IKTC U A A A ABKTFHJKLMNPKRSTFKSS EKSTKSN OKSMOLN
metaphoneLN	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	LAWN OXYMETHYLENE KEYBOARD SIZE BUZZ AZOBENZIL AAKARYOCYTE ABONNEMENT EARTHQUAKE IATROPHYSICALLY ICESKATING OBJECTIONABILITY UBIQUITOUSNESS IIKUOETC UUAAEEIIOOUU AEIOU A ABCDEFGHIJKLMNOPKRSTUVWXYZ EXOTOXIN	SX LWN OXYMTHYLN KYBRD SZ BZZ AZBNZL AKRYCYT ABNNMNT ERTHQK ITRPHYSCLLY ICSKTNG OBJCTNBLTY UBQTSNSS IKTC U A A A ABKTFHJKLMNPKRSTFKSS EKSTKSN

MACH

4 MATCH

6	OPHTHALMOPATHY	OF0LMP0
7	AIRBRUSH	ARBRKSH
8	COMISIONER	KMKSNR
9	ENCEPHALOGRAPH	ENSFLGRF
10	HIGHLIGH	HLGH
11	WEDGYFUDGY	WJGFJG
12	SHAKSPEAR	SHKSPR
13	UBIQUITOUSNESS	UBKTSNS
14	EXOTOXIN	EKSTKSN
15	ANATOMISATIONS	ANTMSKSNS
16	PSEUDOPSEUDOHYPOPARATHYROIDISM	PSTPSTPPR0RTSM
17	TRINITROPHENYLMETHYLNITRAMINES	TRNTRFNLM0LNTRMNS
18	HIPPOPOTOMONSTROSESQUIPEDALIOPHOBES	HPPTMNSTRSSKPTLFBS
19	AGRICULTURALISTICALLY	AGRKLTRLSTKL
20	ACETYLAMINOFLUORENES	ASTLMNFLRNS