## [Demo] NLP Dataset for Customer Service Automation

Company Type	Natural Gas Companies
Inquiry Category	Troubleshooting gas-related equipment
Inquiry Sub- Category	Gas Leak Detection
Description	Customer inquiries regarding identifying and locating gas leaks in their natural gas equipment or pipelines, along with seeking advice on proper precautions and steps to take in case of a gas leak emergency.
Data Size	11,491 paraphrases
Want to buy data?	Please contact nlp-data@qross.me via your business email address.

Masked sample paraphrases of one "Natural Gas Company" customer inquiry. (Purchased data will not be masked.)

you advise steps	during	leak emergency?
Can you to	gasoline leak?	•
a GAS emergency	y?	
Emergency steps	?	
people a ga	s leak?	
help action	a gas emerge	ncy.
steps a accident?	•	
you going	when facing	gas leaks?
Can you about	do case	a leak?
actions, is leaking	g?	
Suggestions eme	rgency plan?	
What to do gas	?	
Advice to combat	·	
about quick tip h	andling a	_?
for gas leak	incident.	
to the leaki	ng gas?	
When lethal show	ıld you share	?
advise a emerger	ncy.	
How to leak	c emergencies?	
gas leak em	ergency?	
I know for a	•	
Please and	there's gas lea	ak.
$Guidance \_\_\_ case \_\_\_ a$	gas	
gas leak		
relating a in	ncident.	
person seeking advice	gas	_•
During a leak what	?	
you advise on how	hazaro	lous situation?

dealing with turmoil.
caused to seek advice.
you have urgent to with a ?
Suggestions steps during the ?
is needed a gas
for gas leak?
to care of leak
do if leak?
In case leaking how ?
you recommend there is gas?
any advice for a emergency?
Immediate for leaks.
What expect from on the crisis?
Can you give any on deal with ?
of a gas you give guidance?
Instructions case of natural
In case leaking, ?
How leaking ?
Can you tell me situation?
seeking advice a gas
During gas leak help
you any on responding to a?
What actions should a if a ?
Any pearls with gas blast?
know what to do when leak ?
I do gas leaks.
How to a?
How act during a?
What when there leaking?
Emergency for ?
there steps relating to ?
I do a gas leak emergency?
There a actions should taken?
in gas leak?
can respond case of gas?
crucial emergency
I to take precautions a ?
Can tell best to a gas?
How with emergencies that ?
should handle a leak?
Do you any regarding with gas?
Guidance procedures?
Are suggestions dealing with gas ?
What do gas leak?
deal gas leak incident?
Help!Guidance gas
Emergency steps ?  Do have ideas how with a gas ?
can I to protect myself emergency?  Do you any wisdom dealing with ?
Do you any wisuom deaming with :

advice in case
a gas leak emergencies?
Advice how to leaks.
properly handle leaks?
How deal leaking gas?
urgent steps be taken regarding ?
An issue gas leak.
Please, the a
Advice on taking action a
you have for ?
Emergency stop leak?
give on what to do when a ?
gas leak what actions recommended?
you us handle a hazardous gas?
can I respond in gas leak?
for gas leakage
there any of a leaking?
Gas ?
are procedures for ?
What I do gas?
Advice during a
I do if there is gas
you to with the gas?
Is possible to give appropriate actions case leak
are suggestions on handle gas?
respond a gas?
What should if gas?
can in case gas leak.
your knowledge about leaks.
responding to gas leaks?
Suggestions emergency plan?
Does a handling a ?
Should there be steps with?
Advice regarding
Guidance needed gas leak
a person gas leak?
share regarding leak.
Advice during critical
Is there on gas?
Emergency plan?
it offer directions case of leak now? there concerning leaking?
gas happens, me what to
are any suggestions how gas crisis.
If there's an should I ?
People seeking after
How can respond crisis?
crucial gas alarm.
Would be willing in case gas leak?
how to with leak.
10W to With four.

that when leaks?
Can you me how handle leak?
Can you help me with ?
What need me the leak crisis moves?
Emergency leaks
a way to take steps a ?
advice about to a ?
do about leaks immediately?
advice leak?
Is it possible handling gas crisis?
happen a leak situation?
help a leak!
You on gas
How should address?
manage gasoline leaks?
tips to gasoline?
Is there fuel?
Help with steps gas
What is for leak?
case of gas?
advice on a gas
you give guidance for dealing ?
What stop a gas?
on gas in need.
to do if leaks.
a gas leak then do?
way get instructions dealing with a crisis?
I do leaking?
should gas leak?
I should take when there a leak?
you quick tips a gas ?
Emergency steps imminent?
Emergency steps imminent? about gas leak?
Emergency steps imminent? about gas leak? Has guidelines with gas leak?
Emergency steps       imminent?         about       gas leak?         Has       guidelines       with       gas leak?         Helping with       ?
Emergency steps imminent?about gas leak?  Has guidelines with gas leak?  Helping with ?  Could regarding leaking gases?
Emergency steps       imminent?         about       gas leak?         Has       guidelines       with       gas leak?         Helping with       ?
Emergency steps imminent?about gas leak?  Has guidelines with gas leak?  Helping with ?  Could regarding leaking gases?
Emergency steps imminent?about gas leak?  Has guidelines with gas leak?  Helping with?  Could regarding leaking gases? Share and guidance a leak.
Emergency steps imminent?         about gas leak?         Has guidelines with gas leak?         Helping with?         Could regarding leaking gases?         Share and guidance a leak.         do do if happens?
Emergency steps       imminent?         about       gas leak?         Has       guidelines       with gas leak?         Helping with      ?         Could       regarding leaking gases?         Share       and guidance       leak.         do       do if       happens?         What should       gas      ?
Emergency steps       imminent?         about       gas leak?         Has       guidelines       with gas leak?         Helping with      ?         Could       regarding leaking gases?         Share       and guidance       leak.         do do if       happens?         What should       gas      ?         During       is necessary.         Is       any       on responding       crisis?
Emergency steps        imminent?          about        gas leak?           Has        guidelines        with        gas leak?           Helping with        ?           Could        regarding leaking gases?          Share        and guidance        leak.          do        happens?           What should        ?           During         is necessary.           Is         any         crisis?
Emergency steps        imminent?          about        gas leak?           Has        guidelines        withgas leak?           Helping with?        egarding leaking gases?          share        and guidance        leak.          do        happens?           What should
Emergency steps

If gas	_ what?
	for leak?
want	know what gas leaks.
During a _	should a?
	what do if gas leak
	emergency is you advice.
What do	a leak?
	ce you give in leaking?
	manage urgent?
	advice on what in a crisis?
	guidance case gas ?
	with leaking gas
	gas?
	a gas
	e tips guidance during
	when leak is?
	any a gas leak emergency?
	needed for during a gas
Is pos	ssible to provide event of a leak?
advice	_ how respond to
Help	when there's gas
Any	on handling ?
How	deal GAS ?
Is there a _	leaking?
То	a emergency?
urgent	regarding
	you for dealing with a gas leak?
Can h	pe procedure for leak?
What do _	myself from a gas?
How to	?
Is any	y steps deal a gas?
Is	for gas leak?
	tips managing vapor escape?
	to get instructions on with ?
to sto	op of ?
	re guidance gas
	ave any steps gas leak incident?
	guidelines leak ?
_	requested the case of
	requested during a
	ave about what do after a ?
	y for with gas leak?
	a gas emergency.
	e on dealing with?
	·?
	estions handle gas leaks?
	about handling of a situation?
	advice responding to ?
	fix gas?
I need	_ know how to gas

Tips on with?
Guidance a gas?
should do a gas ?
There gas leak and actions taken?
the a gas leak?
Do need about leak?
for a leak incident.
During please assist with
Any on a crisis?
Proper is
How to serious leak?
Trying get gas emergency.
During gas advice?
to advice gas emergency.
give on to stop gas leak?
give on to stop gas leak: guidelines to deal with gas leak?
you to properly a situation?
gas leak imminent what actions be?
Are steps for with ?
leak emergency?
are needed in natural
approach with leaked gases?
do know about gas?
to leaked gases.
is the gas crisis?
How handle leak?
Helping procedures!
case a leaking gas
there any guidance about ?
on reacting to
issue - steps a leak?
I do gas leaks?
How leak crisis?
on how to deal with leak?
Any guidelines dealing crisis?
be for tackling leakage?
I like to what do there is a
done case of a gas?
How a gas leak?
Guidance in emergencies?
Should you how handle a gas?
Guidance to gas?
Advice gas procedures
What should out for a?
Recommendations about ?
knowledge faced with lethal ?
Please share any and you during
stop leak gas?
gas leak?
Can suggest a way to deal ?
<u> </u>

Do you	to t	he gas leak crisis?
1	handle gas leak	
	for handling	
		when facing the ?
	gas?	<u> </u>
	 leaking?	
		gae look
	hat to there	
		during gas emergency?
	e best for	
	re and during	leak.
	gas leaked?	
What's it	you	tell me about gas leak?
1	possible instruct	tions for dealing gas-related crisis?
Can g	ive on how	gas situation?
	about leaks?	
What	do if leak i	s?
Do you have	e ideas about to	?
	now how can a _	
	d be handled if there	
	leak crisis?	<del></del>
	ive on handling	situation?
	as emergency	
	gas a	
	eeded a	
		if leak?
	to know how	
	urgent deal	
	amidst gas	
	gas leak be	e done?
Do ha	ve suggestions for	gas leaks?
]	knowledge and experience	gas leaks.
to	with leak	
What	be gas cris	sis?
	gas leak is need	ed?
you ha	ave any ideas what	when there is ?
	ell the best way o	
	a leak	
	tell about le	
	way handle	
	d do	
		.f
	ng	
	steps for	
	with to gas	?
	leak procedures?	
1	I a leak?	
Can	me in	gas leak?
the	leaking gase	s?
How	out leak?	
are	pointers handling	leaks?

a emergency occurs, precautions should I?
If gas happening you give directions?
Guidance leak
in a gas
Are any to a crisis?
are actions in of gas leak?
actions be done is a gas?
Should case gas leaking?
are the appropriate actions is leak?
steps a leak?
steps I take a occurs?
I if a gas?
In case of a gas me to?
Gas leaks, I?
you give if there is leak?
deal leak disasters?
Do have any on deal with a ?
Procedures gas?
we know about procedures?
Advice in case ?
on during leaks.
For gas leak?
do gas leak emergency?
to deal the leaking?
to do leak happens?
on do gas leak.
gas leaks.
Is to tackle gases?
What be done leaking?
Do have any about fix gas?
can to stop gas?
you have any on managing vapor?
have plan in case gas leak?
suggestions gas leakage.
to serious gas leak
Was guidance you dealing with a ?
Ways to deal?
Any leaking?
any way to gasoline?
Help respond gas?
there any guidelines deal gas crisis?
Should provide if is leak?
Does have any how to with gas?
In of leak, can you us?
Should I seek advice ?
How gas?
How should in the of gas?
$\_\_\_$ I deal $\_\_\_$ gas $\_\_\_$ immediately?
The for fuel?
How to a ?

What do leaking?
to handle fast?
Discuss do if there a leak.
a leak?
was wondering was advice how to a gas
you ways to handle situation?
Quick a gas leak.
I handling a gas?
is a gas leak actions should ?
issue steps for a
a gas what should be taken?
the is leaking.
Immediate a gas?
Help! on procedures
Do you I need to gas ?
have any of wisdom dealing gas blast?
case of leak, ?
gas leak situation, to?
to gas an instant?
urgent, steps for ?
Procedures for a .
Let me know to if a
Do have to a gas leak?
Guidance is procedures.
I would like know to in
Is anything you me hazardous gas situation?
one handle emergency leak?
for natural gases.
Guidance gas
Please share tips guidance you gas
can we manage ?
for leak?
Emergency gas leak imminent?
You could advice dealing gas
case a leak, steps taken.
Suggestions how to deal ?
Steps a gas?
How to gas?
Can anyone with a gas leak?
steps leaking?
me to there's leak.
Should have for handling a leak?
you give guidance a gas leak?
You to share tips during a potential
Should be gas leak,
Do ideas to do during a gas?
How should the gas?
about tips gas leak?
gas leaks?
Should we gas ?

Can give advice what gas leak happens?
of leaking Desperate steps?
Need advice gas?
I would to do a gas leak
you suggestions handling leaks?
Guidance crisis?
What should person there a leak?
Can you tell I a leak?
Is it possible to to deal gas?
Can you what to during situation?
emergency gas plans?
urgent regarding ?
If there leaking please provide
Do you have suggestions what after gas?
for gas?
steps for a?
should about gas?
there any good on dealing with ?
Tips guidance a should shared.
If there leak what do?
How deal with gas?
How I a gas?
Is guidelines to stop ?
What if a leak discovered?
any advice on handle leak emergency?
for instructions natural
for gas leak?
How deal gas?
a gas leak imminent, should?
Advice a?
do in case of a?
handling leaks?
we do a gas?
there be a gas leak, please
$\_\_\_ should \_\_\_\_ done \_\_\_\_ an emergency if there \_\_\_\_\_ leak?$
What to in an ?
Steps to a?
advice gas
for gas?
Do you your when dealing lethal gas?
it get instructions on to a ?
Proper a gas takes ?
Guidance necessary gas
How to leaks?
should to aleak?
we tackle fuel?
you give me any handling ?
Help plan for ?
Something do a
uo u

Any how prevent harmful vapor?	
help the gas leak?	
What should a leak imminent?	
When lethal share your	
Tell me what there is a	
Is possible give on to deal a ?	
in case a leaking	
needguidance onleak	
Desperate for steps a leaking?	
for crisis.	
I if me handle a gas leak	
What can when there leak?	
Advice for gas	
should do a leak?	
Share your dealing with	
The for gas incident	
to minimize?	
What do gas?	
I the steps leak.	
gas leak emergency?	
Emergency to gasoline?	
about leak?	
Do have any suggestions gas leak?	
Steps gas leak.	
you able to share facing gas?	
Guidance in gas	
are the in event of leak?	
you able to advice for dealing ?	
action during gas	
about steps during a gas leak?	
to sort gas ?	
What taken when gas leak imminent?	
How manage urgent ?	
we do case a gas ?	
Do have any advice to do there is ?	
you any dealing with gas leak?	
Any gas leak?	
I wondering if any dealing with leak.	
a gas leak	
tips with gas leaks	
when gas leaks.	
Should I if a ?	
you tell us to a ?	
Is recommended gases?	
share tips and during potential leak.	
is looking the case of leak.	
in case gas	
need steps during	
How to leak	
have instructions in natural gases?	

actions gas leak?
during emergency?
What if there gas?
During gas I respond?
me what do a leak.
to quickly get rid?
Can you me to in case gas?
Would you willing give in the gas?
Are urgent that deal ?
plan gas pronto?
What should be there is gas?
you any to respond gas leak incident?
Emergency gas leak?
me what to do a gas
What actions should take a leak?
What can when there a?
a gas emergency.
Can me to if gas leak?
Advice do a gas
Were able to directions of a ?
should during a gas leak.
the event a gas leak guidance?
a gas leak incident
Advice, gas?
need help a gas
gas how should one?
if there's a leak?
gas emergencies?
guidance leaking
I do?
actions for gas?
How to leaked?
What should leak arises?
should be taken when happens?
is in the of gas?
should one there imminent gas leak?
Is guidance you could dealing a emergency?
Immediate suggestions leak?
what I do if leak happens.
seeking advice during
Is advice on a crisis?
one respond gas?
leaked gases?
Should share know-how facing ?
Advice for?
should handle emergencies?
critical during emergency
A emergency help plan.
What is the handle a emergency?
during a leak?

What is to tell me leak moves?
Is there advice the a gas?
What be gas leak?
seek help during leak?
What should done ?
need assistance with a gas .
What should when there is leak?
you me deal with leaking?
In leaks, do?
should we leaking?
gas situation?
Is there any suggestions steps leak?
Is a instructions how to deal a crisis?
there's a what to?
Someone wants know handle emergencies.
given on leaking procedures.
a person take when leak imminent?
Suggestions a potential gas
I get for dealing a gas?
regarding leaks.
a gas to happen offer directions?
Help with when a
Do you have guidelines with gas?
Do you recommend take during ?
Guidance cases of
to leak emergencies
urgent gasoline leakage?
Are there for?
Do you handle leak situation?
So a gas be?
What should should occur?
should gas leak crisis?
Don't to during a potential leak.
a leak, steps taken.
I guidance gas leak
How respond there's leak?
Guidance procedure for ?
What I I get leak?
for plans gas ?
for when is gas
During gas turmoil, help with
should take a gas ?
best way urgent leakage?
you me what to do deal a?
for instructions gases.
to a vapor escape?
Th
There is emergency need
emergencies: leaked?

should I if I leak?
Recommendations during gas
there for dealing a gas crisis.
What should one see a?
to with gas?
Are urgent dealing with gas?
Do for leak crisis?
you know anything with a?
be done a emergency ?
have on handling gas?
Do there guidelines to deal crisis?
I advice in event of a ?
Guidance case a leak?
guidance on gas
leaking, what should I?
we seek the gas ?
me regarding gas leak?
for leaks gas?
If is leak, do I?
Possible gas leak?
What take if there is gas?
there to with leak emergencies?
Advice critical gas
How prevent leakage?
provide directions in a leak?
Do a suggestion for during a gas?
Do a suggestion for during a gas?  Can give what do case a gas leak?
Do a suggestion for during a gas?  Can give what do case a gas leak?  for gas?
Do a suggestion for during a gas?         Can give what do case a gas leak?         for gas?         Guidance on needed
Do a suggestion for
Doa suggestion for
Do a suggestion for
Doa suggestion for
Do a suggestion for
Do a suggestion for
Do a suggestion for
Do a suggestion for
Do         a suggestion for
Do a suggestion for
Do a suggestion for
Do a suggestion for
Do a suggestion for
Do a suggestion for

How I deal leaks
Any with a?
I to learn about gas
with gas fast?
Advice emergency.
you in gas leak ?
a need gas leaks.
to a leak emergency
advice for dealing leak?
of a gas leak?
the a leak occurs.
give advice how deal a leak?
What I leaks?
case leak you provide guidance?
Guidance requested a?
How gas?
can urgent gasoline?
on gas leak?
leak how one respond?
there any about leaks?
available gas leak
How treat leak?
action for
Is gas leak?
What to leak?
Share your when gas
Share knowledge lethal leaks.
Do you ideas how handle gas?
gas is be done?
there a to act a?
Taking steps to deal ?
handle urgent gasoline?
to gas leaks?
How to cope leak?
should a person gas?
Is there to a leak problem?
Guidance on leak appreciated.
advice on respond a gas?
action during
do there is gas
How should gas leaks?
the leak turmoil.
Can you tell us to gas ?
tips in event potential gas leak.
you help with plan a emergency?
Any about how vapor escape?
steps a possible?
I if anyone had any regarding with
Please take some gas
Someone seeking a gas .

Do	have any su	iggestions	about _		with	gas?
	have	wh	at to	a (	gas leak occı	ırs?
Help	gas	turmoil		·		
Emerge	ncy:	gas	_?			
Someon	e is trying _			_ a gas	•	
	ould d					
help	_ steps dur	ing ga	as			
	for gas _	?				
	deal		emerge	ncy?		
	re any					
				during	emergenc	ies.
	ere					
	don				-	
	ere adv				crisis.	
	eps during _				_	
	how					
	deal le					
	should y				leak?	
	a of _					
					uo.	
	GAS					
	to				_•	
	for		· · ·	·		
	ioi give		do	2	loak?	
					reak: gas _	2
	gas wh			011	yas _	·
	have any			asn	2	
	nave any					
			yas 1	eak 1	noves.	
	s emer e wher		00	cure?		
	ere wher					
	of gas		OI	yası		
	or gas e event			chould I	1.0	
				Siloulu I C	10:	
	a					
	ncy			. howandan	ıs gas?	
					is gas?	
	garding gas					
					C	risis moves.
	info					
	u me _			gas	<b>f</b>	
	during					
	be		ieak?			
	gas		,	0		
	e relating _ -					
	do					
	be done				ergency?	
	guideli					
Advice _	to	with	le	aks.		
Instructi	ions on how	deal				

gas leak emergencies?
I respond there a gas?
gas leaks.
Gas what will ?
any gas leak emergencies?
How gas leak?
me to do case of a?
how to deal gas
a gas emergency
during emergency needs
do a leak happen?
Do need for a leak?
Proper actions gas?
you me what do gas leak?
it to get on how to with ?
can tell me about steps take leak emergency?
there guidelines to a gas ?
Is any guidance you could dealing gas?
Can you give me leaking gas?
What should do they leak?
Are leak emergencies?
What should I do ?
Desperate take precautions in ?
there advice about ?
a way to gas fast?
There are for gas
for gas?
help gas leaks
about when are leaks.
There any dealing leaks?
Guidance to deal leak?
when leaks
gas?
you have any suggestions how with leak?
Is advice dealing with ?
Is it for you to advise handling ?
are to share tips during gas
share tips guidance related a leak.
there to manage urgent ?
How handle a serious ?
there guidelines aleak ?
Please share any you a leak.
Please give guidance potential gas
will handle a ?
emergency to leak?
on the leak?
you information on leak?
how respond to a ?
should we do gas?
Do you recommendations for ?

How stop quickly?
Advice in case
there on gases?
the best way gas?
Emergency a gas?
Advice crisis.
about a leak.
to leaks promptly?
Advice leak.
would know how deal with a leak  In case leaking what ?
How I leaks?
Guidance requested leak.
is instructions about gases.
Advice Gas emergency?
you if gas leaking?
Advice needed a
regarding gas?
happen during leak?
When occurs, please?
would you do a?
for leak?
Is it possible give a gas?
advice about how handle gas leak?
any suggestions steps a gas leak?
Should we if is a?
Advice leak
share tips guidance time a leak.
Help with gas.
Are there fuel leakage?
I ask case of gas?
Tell what a leak occurs
to a leaking line.
a emergency?
Advice what do leaks.
you quick tips for leak?
Ways to manage?
for gas?
Is it advise properly handle a gas
What should I do if emergency?
Advice on gas
What do during gas ?
it to guidance for handling gas ?
combat a leak?
react to gas leak?
a gas leak?
Can what to do a gas ?
you have how stop gas leak?
be actions taken if gas emergency?
Can you help out situation?

should do if a?
Are there how to respond gas?
offer advice a hazardous situation?
Guidance on is
Wanting a emergency.
Are there for leak?
Is a way deal gas leak?
Immediate for with gas?
gases steps?
any tips you have when gas leak.
you tell with a gas situation?
advice for leaks.
have any to a gas crisis?
actions after gas
What's me on gas leak crisis?
to take during a gas leak?
How with leak?
guidance gas procedures
emergency gas?
What when aleak?
You be to provide for dealing a
Have any suggestions gas crisis?
on during gas leaks.
a gas leak, there any?
Looking at a
one do to protect themselves from ?
Are advice a leak?
a and how one respond?
Can the case of gas leak?
leak help with the
Emergency gas leak?
procedures gas?
you steps to the gas?
crucial during gas
<del></del>
regarding gas leak
with gas chaos.
If there a leak, action be?
Suggestions gas leaks?
it possible to in case of leak?
on procedures.
react during a?
Is there the during gas leak?
for responding to
Looking for a?
Help in leak.
give dealing with a leak?
steps in gas?
During potential gas please and
I with a leak
there aleak, what you?

should done gas leaks.
How leaking gases?
Asking when leak occurs?
you to do if have a gas?
actions for gas?
we deal aleak?
is and how to it.
How handling leak?
Advice about leaks.
Proper actions ?
Do you advice on a gas crisis?
Do know what to there gas?
Is there guidelines a leak?
Help steps when gas
regarding gases?
If can help gas ?
about providing for dealing a ?
do I gas?
are the to a gas leak?
How deal with gas?
How should gas leak?
guidelines tackle gas leak ?
Do any take during gas leak emergency?
in event of leaking
leakage procedures is
me do in leak.
Any the a leaking ?
to with leaking
actions should take of a leak?
give guidance gas leak?
one handle a?
to fix urgent ?
Gas handling?
How should leak ?
should while gas?
find a gas leak, I?
How to a?
How deal with?
do when a gas?
Proper to stop?
you advise a gas leak emergency?
guidance gas
you guidance on to do a leak?
of a gas can give what to?
provide if there a gas?
steps for emergencies?
Advice a
Help gas procedures.
advice case of leaking gas?
Should handling gas situations?

Emergency for leak?
need to follow during gas leak?
Do you know to me about moves?
a leak?
I do is?
A plan?
steps for a leak?
Tell I do if a leak.
Can explain a leak?
Is for you to advise handling gas?
Is a for dealing gas?
handle a gas leak?
Procedure handling gas
How with a gas?
Someone for a
How deal with
Do know to a leak incident?
best urgent gasoline leak?
in case leak
Is you tell me hazardous gas adequately?
If I a gas can ?
for when a arises.