Input: LAgg

i Value	VideoID	Start	End	Duration	Focus Concept	Focus Topic	Focus Concept	Focus Topic	Focus Concept	Focus Topic	Focus Concept	Focus Topic
0	Mvrm1Oxq7E1	0	0.4	40	Thinking	PsychologicalHealth	Mum	SocialRelationship	Treatment	LevelOfIndependence		
1	Mvrm1Oxq7E4	0.4	1.2	41	LungCancer, Pain	PhysicalHealth	Training	Environment				
2	Mvrm1Oxq7E7	1.3	2.3	66	Mum	SocialRelationship						
3	Mvrm1Oxq7E12	2.3	3.3	51	LungCancer, Energy	PhysicalHealth						
4	rGyEyFzBRG1	0	2.4	158	LungCancer	PhysicalHealth						
5	rGyEyFzBRG12	3.3	4	36	Treatment	LevelOfIndependence	Pain	PhysicalHealth	Noise	Environment	Child	SocialRelationship
6	rGyEyFzBRG14	4	4.6	56	LungCancer	PhysicalHealth						
7	rGyEyFzBRG17	5	5.4	42	Insurance	LevelOfIndependence						
8	nWJc-GLrU-U1	0	2.2	136	Died	SocialRelationship	Temple	PersonalValuesAndBeliefs				
9	nWJc-GLrU-U16	2.2	2.3	5	Died	SocialRelationship	Hope	PsychologicalHealth				
10	hQQSeQZ5eA1	0	1.2	92	Caregiver	SocialRelationship	LungCancer	PhysicalHealth	Treatment	LevelOfIndependence		
11	hQQSeQZ5eA9	1.5	3.1	80	Pneumonia	PhysicalHealth						
12	hQQSeQZ5eA15	3.2	4.4	82	LungCancer	PhysicalHealth						
13	hQQSeQZ5eA21	4.4	6.5	128	Tumor	PhysicalHealth						
14	hQQSeQZ5eA31	6.5	7.3	36	Wife	SocialRelationship						
15	hQQSeQZ5eA37	8.1	8.5	37	Thinking	PsychologicalHealth						
16	hQQSeQZ5eA40	8.5	10	92	Wife, Community	SocialRelationship	Tumor	PhysicalHealth				
17	hQQSeQZ5eA46	10	10	35	Friend	SocialRelationship	LungCancer	PhysicalHealth				
18	hQQSeQZ5eA49	10	11	35	Caregiver	SocialRelationship						
19	hQQSeQZ5eA55	12	12	34	Caregiver	SocialRelationship						
20	hQQSeQZ5eA58	12	13	45	Tumor	PhysicalHealth						
21	hQQSeQZ5eA61	13	14	37	Treatment	LevelOfIndependence						
22	hQQSeQZ5eA64	14	14	40	Pain	PhysicalHealth	Caregiver	SocialRelationship				
23	hQQSeQZ5eA67	14	15	26	Community	SocialRelationship						
24	xY38Bnlm1uE3	0	1.1	73	Sleep, Pain	PhysicalHealth						
25	xY38Bnlm1uE8	1.5	3.5	116	Pain, Sleep	PhysicalHealth	Thinking	PsychologicalHealth				
26	xY38Bnlm1uE18	4.4	5.2	39	Pain	PhysicalHealth	Hope	PsychologicalHealth				
27	xY38Bnlm1uE23	5.5	6.4	44	Sleep	PhysicalHealth						
28	pcB93FeEUE1	0	2.2	138	LungCancer	PhysicalHealth						
29	aaw1e2a7d6o1	0.2	1.1	55	Mum, Family	SocialRelationship						
30	aaw1e2a7d6o5	1.1	3.1	118	Treatment	LevelOfIndependence	Fear	PsychologicalHealth				
31	aaw1e2a7d6o13	3.1	3.5	36	Child	SocialRelationship						
32	uJ14bMLXEY1	0	0.4	42	ShortnessOfBreath	PhysicalHealth						
33	uJ14bMLXEY3	0.5	1.4	49	Copd	PhysicalHealth	Pneumonia					
34	uJ14bMLXEY5	1.4	2.2	37	Exercise	Environment						
35	uJ14bMLXEY9	3	3.2	16	Copd	PhysicalHealth						
36	2R5nfnTU1Q1	0.1	0.5	47	ShortnessOfBreath	PhysicalHealth						
37	2R5nfnTU1Q3	0.6	1.5	50	LungDisease	PhysicalHealth	Treatment	LevelOfIndependence				
38	2R5nfnTU1Q7	2.4	3.3	50	Hope	PsychologicalHealth						
39	2R5nfnTU1Q8	3.4	4.2	46	LungDisease	PhysicalHealth						
40	2R5nfnTU1Q11	4.3	4.6	18	Family	SocialRelationship						
41	tfvB32VbDh51	0	1.4	97	LungCancer	PhysicalHealth	Treatment	LevelOfIndependence				
42	tfvB32VbDh53	1.4	2.2	35	Tumor	PhysicalHealth						
43	tfvB32VbDh110	2.7	2.5	30	Hope	PsychologicalHealth						
44	0f_0JzfmMJ1	0	0.5	48	Friend	SocialRelationship						
45	0f_0JzfmMJ3	0.5	1.4	46	PulmonaryFibrosis	PhysicalHealth						
46	0f_0JzfmMJ7	2.2	3.2	58	Husband	SocialRelationship						
47	0f_0JzfmMJ11	4	4.2	22	Caregiver	SocialRelationship						
48	16Fn8ZPfSV13	0.4	1.4	60	Pneumonia, Rest	PhysicalHealth	Thinking	PsychologicalHealth				
49	16Fn8ZPfSV17	1.4	2.3	55	LungCancer	PhysicalHealth	Tumor					
50	16Fn8ZPfSV118	4.3	6.1	105	Meditation	PersonalValuesAndBeliefs						
51	16Fn8ZPfSV125	6.2	6.4	25	Pneumonia, Rest	PhysicalHealth						
52	16Fn8ZPfSV130	7.3	7.5	29	LungCancer	PhysicalHealth						
53	3mcWSmPdFbM1	0	1.4	96	Treatment	LevelOfIndependence						
54	aaVv9Bla_C1A1	0.1	0.5	41	Cough	PhysicalHealth						
55	aaVv9Bla_C1A3	0.6	1.3	35	Thinking	PsychologicalHealth						
56	aaVv9Bla_C1A5	1.3	2.3	52	Mum	SocialRelationship	Energy, Sleep	PhysicalHealth				
57	aaVv9Bla_C1A8	2.3	3	32	LungCancer	PhysicalHealth						
58	aaVv9Bla_C1A10	3	3.5	47	Husband	SocialRelationship						
59	aaVv9Bla_C1A12	3.5	4.3	30	Family	SocialRelationship						
60	ybnB0cnZb2U12	0	4.1	246	Copd	PhysicalHealth						
61	VzGel23bPze1	0.1	0.5	44	Pneumonia	PhysicalHealth						
62	VzGel23bPze2	0.6	2.2	81	Exercise	Environment	Strength	PhysicalHealth	Treatment	LevelOfIndependence		
63	VzGel23bPze4	2.3	3.2	58	Hope	PsychologicalHealth						
64	2RTqJdSqd1	0.1	2.4	147	Copd	PhysicalHealth						
65	2RTqJdSqd13	3.6	4.3	70	Community, Family	SocialRelationship						
66	2U_9kCB-0R1	0	1.5	149	Copd	PhysicalHealth						
67	N55TqGWjn63	0.4	1.2	41	Covid	PhysicalHealth						
68	N55TqGWjn65	1.1	2.2	53	Husband	SocialRelationship						
69	N55TqGWjn69	3	4.1	87	Pneumonia	PhysicalHealth						
70	N55TqGWjn148	6.3	5.1	49	Treatment	LevelOfIndependence						

Concept Path

i	Concept	Parent		Topic
0	AcquiringInformation			Environment
1	Behaviour			PhysicalHealth
2	BodyImage			PsychologicalHealth
3	CognitiveFunction			PsychologicalHealth
4	DailyLiving			LevelOfIndependence
5	Diet	Behaviour		PhysicalHealth
6	EconomicStatus			Environment
7	Energy			PhysicalHealth
8	Environment			Environment
9	FinancialIssue			LevelOfIndependence
10	LegalIssue			LevelOfIndependence
11				LevelOfIndependence
12	MedicalSelfCare			LevelOfIndependence
13	Mobility			LevelOfIndependence
14	NegativeFeeling			PsychologicalHealth
15	OtherSymptoms	PhysicalSymptoms		PhysicalHealth
16	Pain	PhysicalSymptoms		PhysicalHealth
17	PersonalRelationship			SocialRelationship
18				PersonalValuesAndBeliefs
19	PhysicalEnvironment			Environment
20				PhysicalHealth
21	PhysicalSymptoms			PhysicalHealth
22	PositiveFeeling			PsychologicalHealth
23				PsychologicalHealth
24	Rehabilitation			Environment
25	Religion			PersonalValuesAndBeliefs
26	RespiratoryIllness			PhysicalHealth
27	RespiratoryIllnessSymptom	PhysicalSymptoms		PhysicalHealth
28	Rest			PhysicalHealth
29	SocialActivity			SocialRelationship
30	SocialCare			Environment
31				SocialRelationship
32	Spirituality			PersonalValuesAndBeliefs
33	Treatment			LevelOfIndependence
34	WorkCapacity			LevelOfIndependence
35	AccessToGreenSpace	PhysicalEnvironment		Environment
36	Accessibility	WorkCapacity		LevelOfIndependence
37	AccessibilityOfSocial	SocialCare		Environment
38	Aching	Pain	PhysicalSymptoms	PhysicalHealth
39	AcutePain	Pain	PhysicalSymptoms	PhysicalHealth
40	AddressingAlcoholAlmen	MedicalSelfCare		LevelOfIndependence
41	Alcohol	Behaviour		PhysicalHealth
42	Anger	NegativeFeeling		PsychologicalHealth
43	Anxiety	NegativeFeeling		PsychologicalHealth
44	Appearance	BodyImage		PsychologicalHealth
45	Apparitions	OtherSymptoms	PhysicalSymptoms	PhysicalHealth
46	Apprehension	NegativeFeeling		PsychologicalHealth
47	Asthma	RespiratoryIllness		PhysicalHealth
48	Bathing	DailyLiving		LevelOfIndependence
49	Belief	Spirituality		PersonalValuesAndBeliefs
50	BowelIssues	OtherSymptoms	PhysicalSymptoms	PhysicalHealth
51	BreathlessNess	RespiratoryIllnessSymp	PhysicalSymptoms	PhysicalHealth
52	Bronchitis	RespiratoryIllness		PhysicalHealth
53	Buddhism	Religion		PersonalValuesAndBeliefs
54	CaseInformation	AcquiringInformation		Environment
55	CarePlan	LegalIssue		LevelOfIndependence
56	Caregiver	PersonalRelationship		SocialRelationship
57	CaregiverAssistance	DailyLiving		LevelOfIndependence
58	ChestPain	RespiratoryIllness		PhysicalHealth
59	Child	PersonalRelationship		SocialRelationship
60	Christian	Religion		PersonalValuesAndBeliefs
61	ChronicPain	Pain	PhysicalSymptoms	PhysicalHealth
62	Church	Religion		PersonalValuesAndBeliefs
63	Climate	PhysicalEnvironment		Environment
64	Community	SocialActivity		SocialRelationship
65	ComplexMedication	Treatment		LevelOfIndependence
66	Concentration	CognitiveFunction		PsychologicalHealth
67	Copd	RespiratoryIllness		PhysicalHealth
68	CoughRespiratoryIllnessSyn		PhysicalSymptoms	PhysicalHealth
69	Covid	RespiratoryIllness		PhysicalHealth
70	CulturalFactors	SocialActivity		SocialRelationship

Note: we have added the duration to the segment characterisation to be added as part of the video narratives augmentation text.

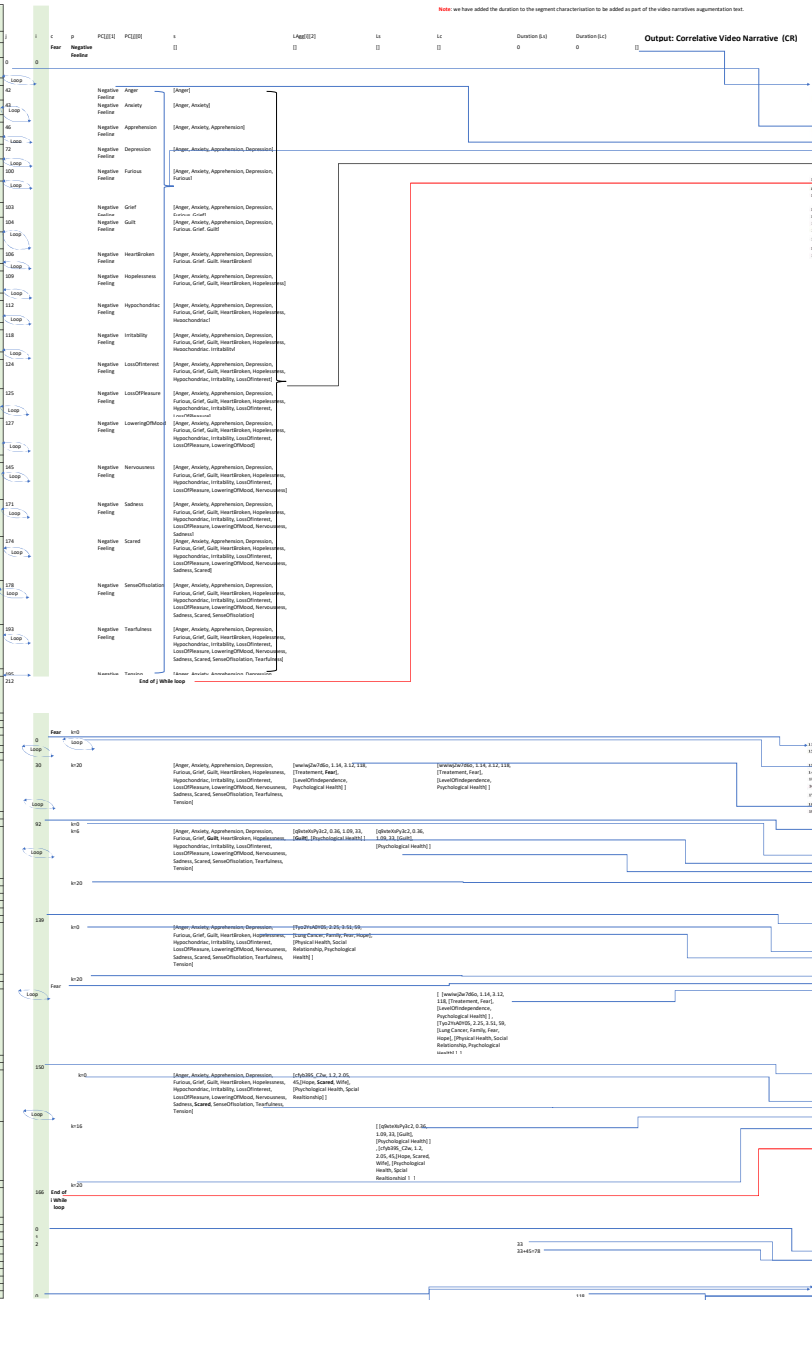
Output: Correlative Video Narrative (CR)

i	c	p	PC[][E1]	PC[][E0]	s	LAgg[][E2]	Ls	Lc	Duration (Ls)	Duration (Lc)
	Fear	Negative Feeling			[]	[]	[]	[]	0	0

Data: List of the aggregated video segments *LAgg*, which is the output of Algorithm 3 where each segment has: its information at position 0, the list of the Focus Topics at position 1, the list of the Focus Concepts at position 2. List of taxonomy-concepts' paths *PC* /* *Each concept c from the taxonomy is represented with a list of concepts where c is the first concept and the remaining concepts are its parents* */. The name of the concept to be learnt *c* and its parent concept name *p*.

Result: CR: List of video segment to learn the specific concept *c* by introducing video segments that focus on similar concepts to *c* where *c* and its similar concepts have the same parent concept *p*.

```
CR=[]; i = 0; j = 0; p = 0; s = 0 /* Set 0 minutes as a mean segment duration */
s_c=[] /* List of the names of the similar concepts to c */
Ls=[] /* List of the segments that have any of concepts in the list s as the focus concept in their characterisation */
Lc=[] /* List of the segments that have c as the focus concept in their characterisation */
while j < length(PC) do
    /* Finding the path in PC for the parent concept p */
    if PC[j][1] == p then
        if PC[j][0] ≠ c then
            /* Do not collect the concept c as similar to itself */
            s_c.append(PC[j][0]) /* Finding the specific concepts which are similar to c as p is their immediate parent */
    j = j + 1;
while i < length(LAgg) do
    /* Find the characterised video segment where its second element includes s; otherwise check if the second element includes c */
    k = 0 /* Variable used to loop through the s list */
    while k < length(s) do
        if (s[k] ∈ LAgg[i][1]) and (LAgg[i] not in Ls) then
            Ls.append(LAgg[i]);
        k = k + 1;
    if c ∈ LAgg[i][1] and LAgg[i] not in Lc then
        Lc.append(LAgg[i]);
while i < length(LAgg) do
    /* Find the characterised video segment where its second element includes s; otherwise check if the second element includes c */
    k = 0 /* Variable used to loop through the s list */
    while k < length(s) do
        if (s[k] ∈ LAgg[i][1]) and (LAgg[i] not in Ls) then
            Ls.append(LAgg[i]);
        k = k + 1;
    if c ∈ LAgg[i][1] and LAgg[i] not in Lc then
        Lc.append(LAgg[i]);
while i < length(LAgg) do
    /* Find the characterised video segment where its second element includes s; otherwise check if the second element includes c */
    k = 0 /* Variable used to loop through the s list */
    while k < length(s) do
        if (s[k] ∈ LAgg[i][1]) and (LAgg[i] not in Ls) then
            Ls.append(LAgg[i]);
        k = k + 1;
    if c ∈ LAgg[i][1] and LAgg[i] not in Lc then
        Lc.append(LAgg[i]);
while i < length(LAgg) do
    /* Find the characterised video segment where its second element includes s; otherwise check if the second element includes c */
    k = 0 /* Variable used to loop through the s list */
    while k < length(s) do
        if (s[k] ∈ LAgg[i][1]) and (LAgg[i] not in Ls) then
            Ls.append(LAgg[i]);
        k = k + 1;
    if c ∈ LAgg[i][1] and LAgg[i] not in Lc then
        Lc.append(LAgg[i]);
while i < length(LAgg) do
    /* Find the characterised video segment where its second element includes s; otherwise check if the second element includes c */
    k = 0 /* Variable used to loop through the s list */
    while k < length(s) do
        if (s[k] ∈ LAgg[i][1]) and (LAgg[i] not in Ls) then
            Ls.append(LAgg[i]);
        k = k + 1;
    if c ∈ LAgg[i][1] and LAgg[i] not in Lc then
        Lc.append(LAgg[i]);
/* Ensure the duration of the collected segments does not exceed θ */
i = 0; durations = 0 /* Save the duration of the segments that have s in their Focus concept PC */
while i < length(Ls) do
    durations = durations + (Ls[i][E3][2] − Ls[i][E3][1]); i = i + 1;
i = 0; durations = 0 /* Save the duration of the segments that have c in their Focus concept PC */
while i < length(Lc) do
    durations = durations + (Lc[i][E3][2] − Lc[i][E3][1]); i = i + 1;
```



71	N557qSWpk16	5.2	6.5	88	Pneumonia, Rest	PhysicalHealth							Dad	PersonalRelationship		SocialRelationship
72	N557qSWpk22	7.1	7.3	18	Determination	PsychologicalHealth							Depression	NegativeFeeling		PsychologicalHealth
73	6U7OagFGzkw3	0.5	1.4	56	Cough	PhysicalHealth							Determination	PositiveFeeling		PsychologicalHealth
74	6U7OagFGzkw5	1.4	2.2	32	Pneumonia	PhysicalHealth							Diarrhea	OtherSymptoms	PhysicalSymptoms	PhysicalHealth
75	6U7OagFGzkw8	2.2	2.6	40	Family	SocialRelationship							Digestion	Diet	Behaviour	PhysicalHealth
76	x8XX6L-TJY1	0.1	0.5	46	Christian	PersonalValuesAndBeliefs							Diet	PhysicalEnvironment		Environment
77	x8XX6L-TJY7	1.3	2.1	38	Pulmonarydisease	PhysicalHealth							DisableAccess	Mobility		LevelOfIndependence
78	x8XX6L-TJY10	2.1	2.5	41	Strength	PhysicalHealth	Child	SocialRelationship					Discomfort	Pain	PhysicalSymptoms	PhysicalHealth
79	a1tA8Vz2Dxm1	0.1	0.4	35	Rest	PhysicalHealth							Drowsiness	OtherSymptoms	PhysicalSymptoms	PhysicalHealth
80	a1tA8Vz2Dxm3	0.4	1.2	34	PulmonaryFibrosis, Pe	PhysicalHealth							Drug	Behaviour		PhysicalHealth
81	a1tA8Vz2Dxm6	1.2	3.2	46	Drug	PhysicalHealth							Dyspnea	RespiratoryIllness(Sef	PhysicalSymptoms	PhysicalHealth
82	a1tA8Vz2Dxm10	2.2	4.1	34	Treatment	LevelOfIndependence	Rehabilitation	Environment					Education	EconomicStatus		Environment
83	a1tA8Vz2Dxm12	3.4	4.1	26	Hope	PsychologicalHealth							EndOfLifeCare	LegalIssue		LevelOfIndependence
84	ybdbYOd8Wr1	0	2	123	Vaping	PhysicalHealth							Endurance	Energy		PhysicalHealth
85	ybdbYOd8Wr9	2.1	2.5	46	Drug	PhysicalHealth	Friend	SocialRelationship					EquipmentCost	FinancialIssue		LevelOfIndependence
86	GY39eeAB1EFA1	0	1.3	87	Copd, Smoking	PhysicalHealth							Excitement	PositiveFeeling		PsychologicalHealth
87	GY39eeAB1EFA5	1.3	5.1	216	Exercise	Environment							Exercise	Rehabilitation		Environment
88	3kzn6_e_gwo1	0	2.3	152	Copd	PhysicalHealth							ExistentialIty	Spirituality		PersonalValuesAndBeliefs
89	3kzn6_e_gwo3	2.4	3.3	46	Family	SocialRelationship							Family	PersonalRelationship		SocialRelationship
90	3kzn6_e_gwo10	3.3	4.2	46	Copd	PhysicalHealth	Thinking	PsychologicalHealth					Fatigue	Energy		PhysicalHealth
91	ybdbYOd8Wr3c1	0	0.3	31	Cough	PhysicalHealth							Fear	NegativeFeeling		PsychologicalHealth
92	ybdbYOd8Wr3c2	0.4	1.1	31	Guilt	PsychologicalHealth							Fever	OtherSymptoms	PhysicalSymptoms	PhysicalHealth
93	ybdbYOd8Wr3c3	1.1	1.4	31	LungCancer	PhysicalHealth							FinancialSchemes	FinancialIssue		LevelOfIndependence
94	ybdbYOd8Wr3c4	1.5	3.1	75	Family, Friend	SocialRelationship	Tumor	PhysicalHealth	Training	Environment			Flexibility	Energy		PhysicalHealth
95	ybdbYOd8Wr3c6	3.1	4.1	58	Mom, Friend	SocialRelationship	LungCancer	PhysicalHealth					FlexibleWorking	WorkCapacity		LevelOfIndependence
96	ATOaTBB_3Hd1	0	0.4	38	Pulmonarydisease	PhysicalHealth							FluidIntake	Diet	Behaviour	PhysicalHealth
97	ATOaTBB_3Hd3	0.4	1.4	61	Rest, ShortnessOfBreat	PhysicalHealth							FoodPreparation	DailyLiving		LevelOfIndependence
98	ATOaTBB_3Hd5	1.4	1.5	13	Treatment	LevelOfIndependence							Friend	PersonalRelationship		SocialRelationship
99	1Bwr8MmEGf1	0.1	0.6	52	LungDisease	PhysicalHealth							FuneralPlan	LegalIssue		LevelOfIndependence
100	1Bwr8MmEGf9	2.2	2.5	34	Family, Child	SocialRelationship							Furious	NegativeFeeling		PsychologicalHealth
101	2bxn2ksBlmc1	0	1.2	81	Family	SocialRelationship							Glad	PositiveFeeling		PsychologicalHealth
102	2bxn2ksBlmc7	1.2	2.1	45	Smoking, Cough	PhysicalHealth							Grandchild	PersonalRelationship		SocialRelationship
103	2bxn2ksBlmc14	2.1	3.3	42	Dad	SocialRelationship	LungCancer	PhysicalHealth					Grief	NegativeFeeling		PsychologicalHealth
104	2bxn2ksBlmc20	4.2	4.5	34	Gym	Environment	Grandchild	SocialRelationship	Thinking	PsychologicalHealth			Guilt	NegativeFeeling		PsychologicalHealth
105	2bxH3E_1XD81	0.1	1.3	85	Family, Friend	SocialRelationship							Gym	Rehabilitation		Environment
106	2bxH3E_1XD813	4.4	5	24	Friend	SocialRelationship							HeartBroken	NegativeFeeling		PsychologicalHealth
107	4AW2DZCsbW61	0.1	2.1	136	EndOfLifeCare	LevelOfIndependence	Friend	SocialRelationship					Hindsight	Religion		PersonalValuesAndBeliefs
108	4AW2DZCsbW65	3	3.4	43	Exercise	Environment	MentalHealth	PsychologicalHealth	Family	SocialRelationship			Hope	PositiveFeeling		PsychologicalHealth
109	1tI8Tbs3DPuM1	0	2.3	147	Child	SocialRelationship							Hopelessness	NegativeFeeling		PsychologicalHealth
110	1tI8E52uFdw1	0	0.5	46	Pain	PhysicalHealth							Humorous	PositiveFeeling		PsychologicalHealth
111	1tI8E52uFdw4	0.5	1.3	43	Alcohol, Diet	PhysicalHealth	Treatment	LevelOfIndependence					Husband	PersonalRelationship		SocialRelationship
112	1tI8E52uFdw7	1.3	2.1	44	Training	Environment							Hypochondriac	NegativeFeeling		PsychologicalHealth
113	x7bI6GCrCGq1	0	0.5	47	Husband	SocialRelationship							Income	EconomicStatus		Environment
114	x7bI6GCrCGq10	3.2	4.2	54	Wife	SocialRelationship							Inheritance	LegalIssue		LevelOfIndependence
115	W0tT-0beCD61	0	0.5	50	Pain, Drug	PhysicalHealth							Injuries	MedicalSelfCare		LevelOfIndependence
116	W0tT-0beCD66	1.3	2	34	LungCancer	PhysicalHealth							Insomnia	Rest		PhysicalHealth
117	W0tT-0beCD68	2	2.4	38	Wife	SocialRelationship							Insurance	LegalIssue		LevelOfIndependence
118	W0tT-0beCD610	2.4	3.3	50	Treatment	LevelOfIndependence							Irritability	NegativeFeeling		PsychologicalHealth
119	W0tT-0beCD618	5.1	5.4	21	Concentration	PsychologicalHealth	Strength	PhysicalHealth					Jewish	Religion		PersonalValuesAndBeliefs
120	W0tT-0beCD620	5.4	6.3	56	Treatment	LevelOfIndependence							LanguageDifficulty	SocialActivity		SocialRelationship
121	2utaaqgeGuk1	0	0.4	38	Pain	PhysicalHealth							Learning	CognitiveFunction		PsychologicalHealth
122	2utaaqgeGuk3	0.5	2.3	107	Treatment	LevelOfIndependence							Leisure	Rehabilitation		Environment
123	2utaaqgeGuk11	3.2	4.1	47	Thinking	PsychologicalHealth							LessOfInfcome	FinancialIssue		LevelOfIndependence
124	2utaaqgeGuk14	4.1	4.5	42	Family, Friend	SocialRelationship							LessOfInterest	NegativeFeeling		PsychologicalHealth
125	2utaaqgeGuk18	5.3	5.4	9	Thinking	PsychologicalHealth							LessOfPleasure	NegativeFeeling		PsychologicalHealth
126	omuUnQSZHQ1	0.1	0.6	52	LungCancer, Pain	PhysicalHealth	Mom	SocialRelationship					Loving	PositiveFeeling		PsychologicalHealth
127	omuUnQSZHQ4	1	1.5	52	Energy	PhysicalHealth							LoweringOfMood	NegativeFeeling		PsychologicalHealth
128	omuUnQSZHQ7	1.6	2.5	55	Husband	SocialRelationship	LungCancer	PhysicalHealth					LungCancer	RespiratoryIllness		PhysicalHealth
129	6uBmQaqS7_B4	0.5	1.2	30	Copd	PhysicalHealth							LungDisease	RespiratoryIllness		PhysicalHealth
130	6uBmQaqS7_B6	1.2	2.2	58	LungCancer, Drug	PhysicalHealth							MedicalAid	Treatment		LevelOfIndependence
131	6uBmQaqS7_B9	2.2	3	42	Gym	Environment	Treatment	LevelOfIndependence	Thinking	PsychologicalHealth			MedicalInformation	AcquiringInformation		Environment
132	1dEqaWoX-EY1	0.1	1	55	Wife	SocialRelationship	LungCancer	PhysicalHealth					MedicalCost	FinancialIssue		LevelOfIndependence
133	1dEqaWoX-EY9	2.2	3	44	Family	SocialRelationship							MedicineIntake	Treatment		LevelOfIndependence
134	3nWNeNbQDb3	0.4	1.3	51	Hope	PsychologicalHealth	Treatment	LevelOfIndependence	Pain	PhysicalHealth			Meditation	Spirituality		PersonalValuesAndBeliefs
135	3nWNeNbQDb8	2.1	2.6	48	Hope	PsychologicalHealth							Memory	CognitiveFunction		PsychologicalHealth
136	Tqo2YAQY01	0.1	0.4	39	Treatment	LevelOfIndependence	LungCancer	PhysicalHealth					MentalHealth	CognitiveFunction		PsychologicalHealth
137	Tqo2YAQY02	0.4	1.2	36	Hope	PsychologicalHealth							Mindfulness	Spirituality		PersonalValuesAndBeliefs
138	Tqo2YAQY03	1.1	2.1	49	Energy	PhysicalHealth	Treatment	LevelOfIndependence					MobilityAid	Mobility		LevelOfIndependence
139	Tqo2YAQY05	2.1	3.5	49	LungCancer	PhysicalHealth	Family	SocialRelationship	Fear, Hope	PsychologicalHealth			Mom	PersonalRelationship		SocialRelationship
140	2bzEgrUL-m81	0.1	1.4	91	Enemy, LungCancer, Sp	PhysicalHealth							Mosque	Religion		PersonalValuesAndBeliefs
141	2bzEgrUL-m85	1.5	2.4	48	Treatment	LevelOfIndependence							Mould	PhysicalEnvironment		Environment
142	2bzEgrUL-m87	2.4	3.1	50	Exercise	Environment							Mum	PersonalRelationship		SocialRelationship
143	2bzEgrUL-m89	3.1	4.5	83	Child	SocialRelationship	Thinking	PsychologicalHealth					Muslim	Religion		PersonalValuesAndBeliefs
144	RY3xHDHnkjJ1	0	1.3	91	PulmonaryFibrosis, Co	PhysicalHealth	Mobility	LevelOfIndependence					Nausea	OtherSymptoms	PhysicalSymptoms	PhysicalHealth
145	RY3xHDHnkjJ7	1.4	2.1	36	Exercise	Environment							Nervousness	NegativeFeeling		PsychologicalHealth
146	RY3xHDHnkjJ9	2.1	2.6	40	Wife	SocialRelationship							Noise	PhysicalEnvironment		Environment
147	RY3xHDHnkjJ14	3.4	4.2	47	Exercise	Environment							NutrientIntake	Diet	Behaviour	PhysicalHealth
148	RY3xHDHnkjJ17	4.2	4.5	21	Family	SocialRelationship	Rest	PhysicalHealth					Occupation	EconomicStatus		Environment
149	y5sb3RL_CZw1	0.1	1.2	73	LungCancer, Smoking	PhysicalHealth							Oedema	OtherSymptoms	PhysicalSymptoms	PhysicalHealth
150	y5sb3RL_CZw5	1.2	2.1	46	Hope, Scared	PsychologicalHealth	Wife	SocialRelationship					Optimism	PositiveFeeling		PsychologicalHealth
151	y5sb3RL_CZw7	2.1	2.4	33	LungCancer	PhysicalHealth	Grandchild	SocialRelationship					OrganDonation	LegalIssue		LevelOfIndependence
152	mXYX6dFVsHs1	0	0.1	47	LungDisease	PhysicalHealth	Exercise, Traini	Environment	Family	SocialRelationship			Parents	PersonalRelationship		SocialRelationship
153	mXYX6dFVsHs4	0.1	1.3	36	Belief	PersonalValuesAndBeliefs	Hope	PsychologicalHealth					Parks	PhysicalEnvironment		Environment
154	3J3NcDEGSOM5	0	0.4	36	Smoking	PhysicalHealth							PartTime	WorkCapacity		LevelOfIndependence
155	3J3NcDEGSOM9	0.4	1.6	77	Tumor	PhysicalHealth							PeriodicRest	Rest		PhysicalHealth
156	3J3NcDEGSOM8	2.2	2.3	12	LungCancer	PhysicalHealth	Treatment	LevelOfIndependence					Pleased	PositiveFeeling		PsychologicalHealth
157	1VwQdfM-2ok49	0	2.3	147	LungCancer	PhysicalHealth							Pneumonia	RespiratoryIllness		PhysicalHealth
158	1VwQdfM-2ok49	2.3	3.1	96	Tumor, Drug, Pain	PhysicalHealth							Pollution	PhysicalEnvironment		Environment
159	1VwQdfM-2ok11	3.1	3.3	14	Insurance	LevelOfIndependence							Pray	Religion		PersonalValuesAndBeliefs
160	3qbpuNk5B9kA	0	0.4	38	Pain	PhysicalHealth							PulmonaryFibrosis	RespiratoryIllness		PhysicalHealth
161	3qbpuNk5B9kB	2.5	3.3	44	Drug	PhysicalHealth							PulmonaryHypertension	RespiratoryIllness		PhysicalHealth
162	3qbpuNk5B9kD	3.3	4	21	Pain	PhysicalHealth							Pulmonary_Rehab	Treatment		LevelOfIndependence
163	qnfvVJB0Uks1	0	0.4	42	PulmonaryFibrosis	PhysicalHealth							QualityOfSelfCare	SocialCare		Environment
164	qnfvVJB0Uks4	0.5	1.3	44	Family	SocialRelationship							Recreation	Rehabilitation		Environment
165	2qaRkumFSW81	0.1	1.2	68									Redundancy	WorkCapacity		LevelOfIndependence
166	2qaRkumFSW86	1.4	2.2	46	Friend	SocialRelationship							Relative	PersonalRelationship		SocialRelationship
167	2qaRkumFSW812	3.2	3.5	34	LungDisease	PhysicalHealth							Relaxation	Rest		PhysicalHealth
													RelationsCelebration	Religion		PersonalValuesAndBeliefs
													Remembering	CognitiveFunction		PsychologicalHealth
													Runny Nose	RespiratoryIllness(Sef	PhysicalSymptoms	PhysicalHealth
													Sadness	NegativeFeeling		PsychologicalHealth
													Safety	PhysicalEnvironment		Environment
													Satisfied	PositiveFeeling		PsychologicalHealth
													Scared	NegativeFeeling		PsychologicalHealth
													Security	PhysicalEnvironment		Environment
													SeekingEmergencyCare	MedicalSelfCare		LevelOfIndependence
													SelfEsteem	BodyImage		PsychologicalHealth
													SensoOfIsolation	NegativeFeeling		PsychologicalHealth
													SexualActivity	SocialActivity		SocialRelationship
													ShortnessOfBreath	RespiratoryIllness(Sef	PhysicalSymptoms	PhysicalHealth
													Showering	DailyLiving		LevelOfIndependence
													Sleep	Rest		PhysicalHealth
													Smoking	Behaviour		PhysicalHealth
													Sneezing	RespiratoryIllness(Sef	PhysicalSymptoms	PhysicalHealth
													SocioEconomicallyDisad	FinancialIssue		LevelOfIndependence
													SoreThroat	RespiratoryIllness(Sef	PhysicalSymptoms	PhysicalHealth
													Soreness	Pain	PhysicalSymptoms	PhysicalHealth
													SpiritualResources	Spirituality		PersonalValuesAndBeliefs
													SpiritualServices	Spirituality		PersonalValuesAndBeliefs
													Spouse	PersonalRelationship		SocialRelationship
													Strength	Energy		PhysicalHealth
													SwollenLymphNodes	RespiratoryIllness(Sef	PhysicalSymptoms	PhysicalHealth
													TeaTubers	NegativeFeeling		PsychologicalHealth
													Temple	Religion		PersonalValuesAndBeliefs
													Tension	NegativeFeeling		PsychologicalHealth
													Thinking	CognitiveFunction		PsychologicalHealth
													TightChest	RespiratoryIllness(Sef	PhysicalSymptoms	PhysicalHealth
													Tickling	DailyLiving		LevelOfIndependence
													Toxins	PhysicalEnvironment		Environment
													Traffic	PhysicalEnvironment		Environment
													Training	AcquiringInformation		Environment
													Transport	PhysicalEnvironment		Environment
													TravelExpenses	FinancialIssue		LevelOfIndependence
													TreatmentCost	FinancialIssue		LevelOfIndependence
													Tumor	RespiratoryIllness		PhysicalHealth
													Value	Spirituality		PersonalValuesAndBeliefs
													Vaping	Behaviour		PhysicalHealth
													Wheezing	RespiratoryIllness(Sef	PhysicalSymptoms	PhysicalHealth
													Wife	PersonalRelationship		SocialRelationship
													Will	LegalIssue		LevelOfIndependence
													Workload	WorkCapacity		LevelOfIndependence

118+59=177

78+177=255 seconds <6 minutes (360 seconds)

(118+59)= 4.25 minutes

[[[qbsktcPy3c2, 0.16, 1.09, 33, [Guilt], [Psychological Health]] , [cYyb395_C6w, 1.2, 2.05, 45, [Hope, Scared, Wife], [Psychological Health, Social Relationship]]] , [[wxiwQeTxBJo, 1.16, 3.12, 118, [Treatement, Rest], [LevelOfIndependence, Psychological Health]] , [TyoZYAQRD5, 2.25, 3.51, 59, [Lung Cancer, Family, Fear, Hopel, [Physical Health, Social Relationship, Psychological Health]]]]

```
if durations + durations <= θ then
    /* If the duration of the collected segments is ≤ θ, save these segments
       in the list of the onlos segments for the Correlative narrative CR */
    CR.append(Lx); CR.append(Lc);
else
    /* If the duration of the selected segments is > θ, split the time
       (θ = θ/2) between Lx and Lc */
    t = 0; duration = 0; θ = θ/2; someLx=[]; someLc=[] /* The lists
       someLx and someLc include some of the segments from the Lx and Lc
       lists, respectively */
    while i < length(Lx) do
        if duration ≤ θ then
            someLx.append(Lx[i]);
            duration = duration + (Lx[i][t][2] − Lx[i][t][1]);
        i = i + 1;
    i = 0; duration = 0;
    while i < length(Lc) do
        if duration ≤ θ then
            someLc.append(Lc[i]);
            duration = duration + (Lc[i][t][2] − Lc[i][t][1]);
        i = i + 1;
    CR.append(someLx); CR.append(someLc);
Return CR
```