VANT 149

Submission of all data

The full names and student numbers of all team members:

(Allen) Zihang **Cheng** (71391593) (Anna) Zicheng **Han** (75843656) (Hannah) Chuhan **Zhang** (96464938) Sungha **Choi** (74371618)

Data 1: Locations of all bluephone

Source: https://security.ubc.ca/home/safety-prevention-resources/emergency-blue-phones/

Formal_Name_and_Room	Street_Address	Latitude	Longitude
Blue Phone 01 ANSOC @ Northwest Marine Drive	6303 N W MARINE DR at ANSOC Building	49.26973	-123.25721
Blue Phone 03 Flagpole Plaza @ Main Mall & Crescent Road	Main Mall & Crescent Road		-123.25657
Blue Phone 04 Wyman Plaza @ Main Mall & Memorial Road	Main Mall & Memorial Road		-123.25504
Blue Phone 05 Ponderosa F @ Lower Mall & Pedestrian Path	2008 LOWER MALL Ponderosa Annex F	49.26497	-123.25755
Blue Phone 06 Ponderosa A @ West Mall & Agricultural Road	2011 WEST MALL Ponderosa Annex A	49.26534	-123.25625
Blue Phone 07 Hennings @ East Mall & Agricultural Road	6224 AGRICULTURAL RD/EAST MALL Hennings Bidg	49.26697	-123.25183
Blue Phone 08 North Parkade @ Student Union Plaza	6115 STUDENT UNION BLVD Outside North Parkade	49.26847	-123.25109
Blue Phone 09 IRC @ Health Sciences Plaza	2194 HEALTH SCIENCES MALL	49.2651	-123.24738
Blue Phone 10 Biological Sciences @ Main Mall & University Blvd	6270 UNIVERSITY BLVD Biological Sciences Bldg		-123.25227
Blue Phone 11 Earth Sciences Building @ Main Mall & Stores Road	2207 MAIN MALL	49.26253	
Blue Phone 12 Earth & Ocean Sciences @ Stores Road at EOS	6339 STORES RD	49.26195	-123.25111
	6460 AGRONOMY RD/WEST MALL Ritsumeikan House		-123.25239
Blue Phone 13 Ritsumeikan @ West Mall at Ritsumeikan			
Blue Phone 14 MacMillan @ Main Mall & Agronomy Rd	2357 MAIN MALL H.R. MacMILLAN Bldg		-123.24954
Blue Phone 15 Brock Hall @ East Mall at Memorial Road	1874 EAST MALL BROCK Hall	49.26843	
Blue Phone 16 Old Barn Community Centre @ Main Mall & Thunderbird Blvd	6308 THUNDERBIRD Blvd Old Barn Community Ctr		-123.24815
Blue Phone 17 Rhododendron Wood @ Main Mall & Eagles Drive	Main Mall	49.25758	-123.24671
Blue Phone 18 Life Sciences @ Health Sciences Mall & Agronomy Rd.	2350 HEALTH SCIENCES MALL Life Sciences Ctr	49.26187	-123.24574
Blue Phone 19 Frank Forward @ Rear Lane of Frank Forward	6350 STORES RD Rear Frank FORWARD Bldg	49.26146	
Blue Phone 02 CK Choi @ West Mall & Crescent Road	1855 WEST MALL CHOI Bldg	49.26789	-123.25827
Blue Phone 20 Chemistry Physics @ East Mall & University Blvd.	6221 UNIVERSITY BLVD Chemistry A Block	49.26575	-123.25084
Blue Phone 21 Chemistry East @ Main Mall & Agricultural Road	2036 MAIN MALL	49.26616	-123.25372
Blue Phone 22 Buchanan D @ Crescent Road at Buchanan D	1866 MAIN MALL/CRESCENT RD Buchanan Bldgs	49.26948	-123.25443
Blue Phone 23 Fraser River Parkade @ Memorial Rd at Fraser River Parkade	6441 MEMORIAL RD Fraser River Parkade	49.26658	-123.25782
Blue Phone 24 Nitobe Garden @ Memorial Rd & Lower Mall	1895 LOWER MALL NITOBE Gardens	49.26612	-123.25867
Blue Phone 25 St. John's @ Lower Mall & University Blvd.	2111 LOWER MALL St John's College	49.26331	-123.25635
Blue Phone 26 Jack Bell @ West Mall & University Blvd	2080 WEST MALL Jack BELL School of Social Work	49.26421	-123.25494
Blue Phone 27 West Parkade @ Lower Mall & Pedestrian Path at West Parkade	2140 LOWER MALL	49.26201	-123.25514
Blue Phone 28 BRDF @ Lower Mall & Agronomy Road	2337 LOWER MALL & AGRONOMY Rd	49.26031	-123.25394
Blue Phone 29 CIRS @ West Mall & Stores Road	2260 WEST MALL & STORES Rd	49.26166	-123.25331
Blue Phone 30 Totem Park @ West Mall & Thunderbird Blvd	2525 WEST MALL & THUNDERBIRD Blvd	49.25846	-123.25067
Blue Phone 31 Tennis Centre @ Thunderbird & East Mall	6160 THUNDERBIRD BLVD & EAST MALL	49.26008	-123.24562
Blue Phone 32 TBIRD Parkade @ West Mall & Thunderbird	6085 THUNDERBIRD BLVD & WEST MALL	49.26165	-123.24189
Blue Phone 33 Pulp & Paper @ East Mall & Argonomy Road	2385 EAST MALL & Agronomy Rd at Pulp & Paper Centre	49.26143	-123.24712
Blue Phone 34 SPPH @ Health Sciences Mall & Hospital Lane	2206 East Mall	49.2642	-123.2479
Blue Phone 35 CEME East Mail & Applied Science Lane	6250 APPLIED SCIENCE LN at EAST MALL	49.2631	-123.2484
Blue Phone 36 Iona Building South Side	6000 Iona Drive South Side of IONA Building	49.27083	-123.25009
Blue Phone 37 UBC Exchange Bus Loop East - NE Side of Transit Loop	UBC Exchange Bus Loop Wesbrook Mall N of University Blvd	49.26755	-123.24755
Blue Phone 38 Exchange North	UBC Exchange	49.26833	-123.24817
Blue Phone 39 FUTURE: Diesel Bus Loop	UBC Exchange	49.26755	-123.24755
Blue Phone 40 Tallwood House - Walter Gage Rd NE of Brock Commons	6088 House Walter GAGE Rd NE of Brock Commons	49.26974	-123.25097
Blue Phone 41 Thunderbird Park pedestrian pathway near Soccer Centre	3065 Wesbrook Mall pathway near Soccer Centre	49.26753	-123.25268
Blue Phone 42 IK Barber 1st Floor Wall Unit	1961 EAST MALL		-123.25268
Blue Phone 43 IK Barber 2nd Floor Wall Unit	1961 EAST MALL		-123.25268
Blue Phone 44 IK Barber 3rd Floor Wall Unit	1961 EAST MALL		-123.25268
Blue Phone 45 IK Barber 4th Floor Wall Unit	1961 EAST MALL		-123.25268
Dide Friend 45 In Daiber Full Floor Wall Offic	1301 ENGT TIME	19.20733	123.23200

Blue Phone 46 Vantage College Agronomy & West Mall	6363 Agronomy Road Vantage College		-123.25096
Blue Phone 47 Fraser River Parkade North Entrance Level 1	6441 Memorial Rd Fraser River Parkade North Entrance Level 1	49.26625	-123.2579
Blue Phone 48 Fraser River Parkade South West Level 1	6441 Memorial Rd Fraser River Parkade South West Level 1	49.26568	-123.25827
Blue Phone 49 Fraser River Parkade South East Level 1	6441 Memorial Rd Fraser River Parkade South East Level 1	49.26596	-123.25746
Blue Phone 50 Fraser River Parkade North East Level 2	6441 Memorial Rd Fraser River Parkade North East Level 2	49.26627	-123.25786
Blue Phone 51 Health Sciences Parkade South East Ground Level	2250 Health Sciences Mall South East Ground Level	49.2633	-123.24768
Blue Phone 52 Health Sciences Parkade South West Ground Level	2250 Health Sciences Mall South West Ground Level	49.2633	-123.24768
Blue Phone 53 Health Sciences Parkade North East Bottom Level	2250 Health Sciences Mall	49.2633	-123.24768
Blue Phone 54 Health Sciences Parkade North West Roof Top Level 5	2250 Health Sciences Mall	49.2633	-123.24768
Blue Phone 56 North Parkade South East Level 3	6115 Student Union Boulevard South East Level 3	49.26895	-123.25095
Blue Phone 57 North Parkade South Entrance Level 3	6115 Student Union Boulevard South Entrance Level 3	49.26895	-123.25095
Blue Phone 58 North Parkade South Exit Level 2	6115 Student Union Boulevard South Exit Level 2	49.26895	-123.25095
Blue Phone 59 North Parkade North West Level 2	6115 Student Union Boulevard North West Level 2	49.26895	-123.25095
Blue Phone 60 North Parkade North East Level 3	6115 Student Union Boulevard North East Level 3	49.26895	-123.25095
Blue Phone 61 North Parkade South Side Rooftop Level 8	6115 Student Union Boulevard South Side Rooftop Level 8	49.26895	-123.25095
Blue Phone 62 Rose Garden Parkade Elevator Level 5	6278 NW Marine Drive Elevator Level 5	49.26945	-123.25658
Blue Phone 63 Rose Garden Parkade Elevator Level 4	6278 NW Marine Drive Elevator Level 4	49.26945	-123.25658
Blue Phone 64 Rose Garden Parkade Elevator Level 3	6278 NW Marine Drive Elevator Level 3	49.26945	-123.25658
Blue Phone 65 Rose Garden Parkade Elevator Level 2	6278 NW Marine Drive Elevator Level 2	49.26945	-123.25658
Blue Phone 66 Rose Garden Parkade Elevator Level 1	6278 NW Marine Drive Elevator Level 1	49.26945	-123.25658
Blue Phone 67 Thunderbird Parkade North West Level 1	6085 Thunderbird Blvd North West Level 1	49.26159	-123.24303
Blue Phone 68 Thunderbird Parkade West Level 1	6085 Thunderbird Blvd West Level 1	49.26159	-123.24303
Blue Phone 69 Thunderbird Parkade South East Level 1	6085 Thunderbird Blvd South East Level 1	49.26159	-123.24303
Blue Phone 70 Thunderbird Parkade North East Level 1	6085 Thunderbird Blvd North East Level 1	49.26159	-123.24303
Blue Phone 71 West Parkade North West Entrance Level 1	2140 Lower Mall	49.26281	-123.25539
Blue Phone 72 West Parkade South Level 2	2140 Lower Mall	49.26281	-123.25539
Blue Phone 73 West Parkade North Level 2	2140 Lower Mall	49.26281	-123.25539
Blue Phone 74 West Parkade North East Level 4	2140 Lower Mall	49.26281	-123.25539
Blue Phone 75 West Parkade South East Level 4	2140 Lower Mall	49.26281	-123.25539
Blue Phone 76 West Parkade North Rooftop Level 11	2140 Lower Mall	49.26281	-123.25539
Blue Phone 77 Fairview Crescent & Osoyoos Crescent	Fairview Crescent & Osoyoos Crescent	49.26246	-123.2388
Blue Phone 78 Osoyoos Crescent & Oyama Court	Osoyoos Crescent & Oyama Court	49.26072	-123.2382
Blue Phone 79 Point Grey Apartments	Osoyoos Crescent & Salmo Court	49.25961	-123.23727
Blue Phone 80 Osoyoos Crescent & Acadia Park Lane	Osoyoos Crescent & Acadia Park Lane	49.25967	-123.23522
Blue Phone 81 University Blvd Lot Stairs 1	Blue Phone 81 University Blvd Lot Stairs 1	49.26659	-123.24925
Blue Phone 82 University Blvd Lot Stairs 2	Blue Phone 82 University Blvd Lot Stairs 2	49.26662	-123.24912
Blue Phone 83 University Blvd Lot Stairs 3	Blue Phone 83 University Blvd Lot Stairs 3	49.26662	-123.24912
Blue Phone 84 University Blvd Lot Stairs 4	Blue Phone 84 University Blvd Lot Stairs 4	49.26662	-123.24912
Blue Phone 55 Health Science Pkd Rooftop Level 5	2250 Health Sciences Mall	49.2633	-123.24768
Blue Phone 85 Saltwater Orca House	5965 Student Union Blvd	49.26875	-123.24971
Blue Phone 86 Saltwater Sturgeon House	5955 Student Union Blvd	49.26915	-123.24856
Blue Phone 87	Saltwater Herring House	49.26927	-123.248
Blue Phone 88	Saltwater Sea Otter House	49.27007	-123.24837
Blue Phone 89	Saltwater Octopus House	49 27075	-123.24798

Data 2: Distances between Bluephones and Nearest Neighbors

Tidy data processed by R languages saved as csv file from Data 1 $\,$

Phosphare and the			decad Blookers			distance.
Bluephone_origin	-	origin_Lon	closest_Bluephone	_	closest_lon	distance
Blue Phone 01 ANSOC @ Northwest Marine Drive	49.26973		Blue Phone 62 Rose Garden Parkade Elevator Level 5	49.26945		55.42413500175715
Blue Phone 03 Flagpole Plaza @ Main Mall & Crescent Road	49.26894	-123.25657		49.26945		56.72429339580808
Blue Phone 04 Wyman Plaza @ Main Mall & Memorial Road	49.26777	-123.25504	Blue Phone 03 Flagpole Plaza @ Main Mall & Crescent Road	49.26894		171.26136385783667
Blue Phone 05 Ponderosa F @ Lower Mall & Pedestrian Path	49.26497	-123.25755	Blue Phone 48 Fraser River Parkade South West Level 1	49.26568		94.76914092484958
Blue Phone 06 Ponderosa A @ West Mall & Agricultural Road	49.26534	-123.25625	Blue Phone 05 Ponderosa F @ Lower Mall & Pedestrian Path	49.26497	-123.25755	103.17813102739794
Blue Phone 07 Hennings @ East Mall & Agricultural Road	49.26697	-123.25183	Blue Phone 41 Thunderbird Park pedestrian pathway near Soccer Centre	49.26753	-123.25268	87.78280466714641
Blue Phone 08 North Parkade @ Student Union Plaza	49.26847	-123.25109	Blue Phone 56 North Parkade South East Level 3	49.26895	-123.25095	54.34680549740137
Blue Phone 09 IRC @ Health Sciences Plaza	49.2651	-123.24738	Blue Phone 34 SPPH @ Health Sciences Mall & Hospital Lane	49.2642	-123.2479	107.0098331563435
Blue Phone 10 Biological Sciences @ Main Mall & University Blvd	49.26471	-123.25227	Blue Phone 20 Chemistry Physics @ East Mall & University Blvd.	49.26575	-123.25084	155.59711993810393
Blue Phone 11 Earth Sciences Building @ Main Mall & Stores Road	49.26253	-123.25111	Blue Phone 12 Earth & Ocean Sciences @ Stores Road at EOS	49.26195	-123.25239	113.31800072125624
Blue Phone 12 Earth & Ocean Sciences @ Stores Road at EOS	49.26195	-123.25239	Blue Phone 29 CIRS @ West Mall & Stores Road	49.26166	-123.25331	74.32668666356724
Blue Phone 13 Ritsumeikan @ West Mall at Ritsumeikan	49.26008	-123.25207	Blue Phone 46 Vantage College Agronomy & West Mall	49.26039	-123.25096	87.8449871909675
Blue Phone 14 MacMillan @ Main Mall & Agronomy Rd	49.26053	-123.24954	Blue Phone 46 Vantage College Agronomy & West Mall	49.26039	-123.25096	104.52721853719001
Blue Phone 15 Brock Hall @ East Mall at Memorial Road	49.26843	-123.25254	Blue Phone 41 Thunderbird Park pedestrian pathway near Soccer Centre	49.26753	-123.25268	100.6106895978194
Blue Phone 16 Old Barn Community Centre @ Main Mall & Thunderbird Blvd	49.25932	-123.24815	Blue Phone 14 MacMillan @ Main Mall & Agronomy Rd	49.26053	-123.24954	168.36310992237296
Blue Phone 17 Rhododendron Wood @ Main Mall & Eagles Drive	49.25758	-123.24671	Blue Phone 16 Old Barn Community Centre @ Main Mall & Thunderbird Blvd	49.25932	-123.24815	220.0795343426319
Blue Phone 18 Life Sciences @ Health Sciences Mall & Agronomy Rd.	49.26187	-123.24574	Blue Phone 33 Pulp & Paper @ East Mall & Argonomy Road	49.26143	-123.24712	111.73273050989283
Blue Phone 19 Frank Forward @ Rear Lane of Frank Forward	49.26146	-123.25169	Blue Phone 12 Earth & Ocean Sciences @ Stores Road at EOS	49.26195	-123.25239	74.60411568446983
Blue Phone 02 CK Choi @ West Mall & Crescent Road	49.26789	-123.25827	Blue Phone 23 Fraser River Parkade @ Memorial Rd at Fraser River Parkade	49.26658	-123.25782	149.3272830310264
Blue Phone 20 Chemistry Physics @ East Mall & University Blvd.	49.26575	-123.25084	Blue Phone 81 University Blvd Lot Stairs 1	49.26659	-123.24925	148.72443796715476
Blue Phone 21 Chemistry East @ Main Mall & Agricultural Road	49.26616	-123.25372	Blue Phone 07 Hennings @ East Mall & Agricultural Road	49.26697	-123.25183	164.4279891251281
Blue Phone 22 Buchanan D @ Crescent Road at Buchanan D	49.26948	-123.25443	Blue Phone 62 Rose Garden Parkade Elevator Level 5	49.26945	-123.25658	156.5044982615307
Blue Phone 23 Fraser River Parkade @ Memorial Rd at Fraser River Parkade	49.26658	-123.25782	Blue Phone 50 Fraser River Parkade North East Level 2	49.26627	-123.25786	34.59931269036896
Blue Phone 24 Nitobe Garden @ Memorial Rd & Lower Mall	49.26612	-123.25867	Blue Phone 48 Fraser River Parkade South West Level 1	49.26568	-123.25827	56.939735159121554
Blue Phone 25 St. John's @ Lower Mall & University Blvd.	49.26331	-123.25635	Blue Phone 71 West Parkade North West Entrance Level 1	49.26281	-123.25539	89.30058336797676
Blue Phone 26 Jack Bell @ West Mall & University Blvd	49.26421	-123.25494	Blue Phone 25 St. John's @ Lower Mall & University Blvd.	49.26331	-123.25635	143.35566377222017
Blue Phone 27 West Parkade @ Lower Mall & Pedestrian Path at West Parkade	49.26201	-123.25514	Blue Phone 71 West Parkade North West Entrance Level 1	49.26281	-123.25539	90.8135964154881
Blue Phone 28 BRDF @ Lower Mall & Agronomy Road	49.26031	-123.25394	Blue Phone 13 Ritsumeikan @ West Mall at Ritsumeikan	49.26008	-123.25207	138.49969095820387
Blue Phone 29 CIRS @ West Mall & Stores Road	49.26166	-123.25331	Blue Phone 12 Earth & Ocean Sciences @ Stores Road at EOS	49.26195	-123.25239	74.32668666356724
Blue Phone 30 Totem Park @ West Mall & Thunderbird Blvd	49.25846	-123.25067	Blue Phone 16 Old Barn Community Centre @ Main Mall & Thunderbird Blvd	49.25932	-123.24815	206.8729769947377
Blue Phone 31 Tennis Centre @ Thunderbird & East Mall	49.26008	-123.24562	Blue Phone 33 Pulp & Paper @ East Mall & Argonomy Road	49.26143	-123.24712	185.6423005625256
Blue Phone 32 TBIRD Parkade @ West Mall & Thunderbird	49.26165	-123.24189	Blue Phone 67 Thunderbird Parkade North West Level 1	49.26159	-123.24303	83.24595118659444
Blue Phone 33 Pulp & Paper @ East Mall & Argonomy Road	49.26143	-123.24712	Blue Phone 18 Life Sciences @ Health Sciences Mall & Agronomy Rd.	49.26187	-123.24574	111.73273050989283
Blue Phone 34 SPPH @ Health Sciences Mall & Hospital Lane	49.2642	-123.2479	Blue Phone 51 Health Sciences Parkade South East Ground Level	49.2633	-123.24768	101.36609347947775
Blue Phone 35 CEME East Mall & Applied Science Lane	49.2631	-123.2484	Blue Phone 51 Health Sciences Parkade South East Ground Level	49.2633	-123.24768	56.9305663097431
Blue Phone 36 Iona Building South Side	49.27083	-123.25009	Blue Phone 40 Tallwood House - Walter Gage Rd NE of Brock Commons	49.26974	-123.25097	137.1011224378912
Blue Phone 37 UBC Exchange Bus Loop East - NE Side of Transit Loop	49.26755	-123.24755	Blue Phone 38 Exchange North	49.26833	-123.24817	97.78143078030268
Blue Phone 38 Exchange North	49.26833	-123.24817	Blue Phone 86 Saltwater Sturgeon House	49.26915	-123.24856	95.51104488709474
Blue Phone 39 FUTURE: Diesel Bus Loop	49.26755	-123.24755	Blue Phone 38 Exchange North	49.26833	-123.24817	97.78143078030268
Blue Phone 40 Tallwood House - Walter Gage Rd NE of Brock Commons	49.26974	-123.25097	Blue Phone 56 North Parkade South East Level 3	49.26895	-123.25095	87.87186865277693
Blue Phone 41 Thunderbird Park pedestrian pathway near Soccer Centre	49.26753	-123.25268	Blue Phone 07 Hennings @ East Mall & Agricultural Road	49.26697	-123.25183	87.78280466714641
Blue Phone 42 IK Barber 1st Floor Wall Unit	49.26753	-123.25268	Blue Phone 07 Hennings @ East Mall & Agricultural Road	49.26697	-123.25183	87.78280466714641
Blue Phone 43 IK Barber 2nd Floor Wall Unit	49.26753	-123.25268	Blue Phone 07 Hennings @ East Mall & Agricultural Road	49.26697	-123.25183	87.78280466714641
Blue Phone 44 IK Barber 3rd Floor Wall Unit	49.26753	-123.25268	Blue Phone 07 Hennings @ East Mall & Agricultural Road	49.26697	-123.25183	87.78280466714641
Blue Phone 45 IK Barber 4th Floor Wall Unit	49.26753	-123.25268	Blue Phone 07 Hennings @ East Mall & Agricultural Road	49.26697	-123.25183	87.78280466714641

But Prime of Standard College Agrowmy & Water Hale 4,25665 12,2576 18,25765 18							
Bus Primer of Frener Pitern Perkade North Eure 1 4,25597 21,23767 10 10 10 10 10 10 10 1	Blue Phone 46 Vantage College Agronomy & West Mall	49.26039	-123.25096	Blue Phone 13 Ritsumeikan @ West Mall at Ritsumeikan	49.26008	-123.25207	87.8449871909675
Bus Primors Primor Princial South East Level 49,2657 432,2376 451,237546 180 primors 57 reaser River Perkade North East Level 49,2657 432,3376 551,3373513751375137513751375137513751375137	Blue Phone 47 Fraser River Parkade North Entrance Level 1	49.26625	-123.2579	Blue Phone 50 Fraser River Parkade North East Level 2	49.26627	-123.25786	3.663715356137812
Bue Phone 50 Fraser River Parkade North East Level 2 42,2037 212,2578 Sue Phone 47 Fraser River Parkade North Eintrance Level 1 40,2031 122,2047 50,00505097431	Blue Phone 48 Fraser River Parkade South West Level 1	49.26568	-123.25827	Blue Phone 24 Nitobe Garden @ Memorial Rd & Lower Mall	49.26612	-123.25867	56.939735159121554
Bus Prince S I Health Sciences Parkade South East Ground Level 49,2613 123,2476 80.8 Prince 3 S CEME East Mail & Applied Science Lane 49,2611 123,2444 50,900563997-311	Blue Phone 49 Fraser River Parkade South East Level 1	49.26596	-123.25746	Blue Phone 50 Fraser River Parkade North East Level 2	49.26627	-123.25786	45.123973049996756
But Prince S2 Natib Science Parkade South West Ground Level 49,2631 432,24768 But Prince 35 CEME East Mell & Applied Science Lane 49,2631 12,22448 56,930563997313	Blue Phone 50 Fraser River Parkade North East Level 2	49.26627	-123.25786	Blue Phone 47 Fraser River Parkade North Entrance Level 1	49.26625	-123.2579	3.663715356137812
Blue Prince S Neath Science Parkade North West Kord Top Level S 4,2633 423,24768 Blue Prince S CEME East Mall & Applied Science Lane 49,2631 123,2448 65,030563097931	Blue Phone 51 Health Sciences Parkade South East Ground Level	49.2633	-123.24768	Blue Phone 35 CEME East Mall & Applied Science Lane	49.2631	-123.2484	56.9305663097431
Blue Phone 5 Health Sciences Parkade North West Roof Top Level 5 49.2633 123.24768 Blue Phone 3 SCME East Mail & Applied Science Lune 49.2661 123.24516 54.3860569740137 Blue Phone 5 North Parkade Subtract Increase A 49.2667 123.2516 54.3860569740137 Blue Phone 6 North Parkade Subtract Increase A 49.2667 123.2516 54.3860569740137 Blue Phone 6 North Parkade Subtract Increase A 49.2667 123.2516 54.3860569740137 Blue Phone 6 North Parkade Subtract Increase A 49.2667 123.2516 54.3860569740137 Blue Phone 6 North Parkade North Seat Level 2 49.2667 123.2507 Blue Phone 6 North Parkade & Student Union Plaza 49.2667 123.2516 54.3860569740137 Blue Phone 6 North Parkade North Seat Level 3 49.2667 123.2507 Blue Phone 6 North Parkade & Student Union Plaza 49.2667 123.2516 54.3860569740137 Blue Phone 6 North Parkade Subtract Union Plaza 49.2667 123.2516 54.3860569740137 Blue Phone 6 North Parkade Subtract Union Plaza 49.2667 123.2516 54.3860569740137 Blue Phone 6 North Parkade Subtract Union Plaza 49.2667 123.2516 54.2860569740137 Blue Phone 6 North Parkade Subtract Union Plaza 49.2667 123.2516 54.2860569740137 Blue Phone 6 North Parkade Subtract Union Plaza 49.2667 123.2516 54.2860569740137 Blue Phone 6 North Parkade Subtract Level 4 49.2667 123.2516 54.2860569740137 Blue Phone 6 North Parkade Subtract Level 4 49.2667 123.2516 54.2860569740137 Blue Phone 6 North Parkade Subtract Level 4 49.2667 123.2516 54.2860569740137 Blue Phone 6 North Parkade Subtract Level 4 49.2667 123.2516 54.2860569740137 Blue Phone 6 North Parkade Subtract Level 4 49.2667 123.2516 54.2860569740137 Blue Phone 6 North Parkade Subtract Level 4 49.2667 123.2516 54.2860569740137 Blue Phone 6 North Parkade Subtract Level 4 49.2667 123.2516 54.2860569740137 Blue Phone 6 North Parkade Subtract Level 4 49.2667 123.2516 54.2860569740137 Blue Phone 6 North Parkade Subtract Level 4 4	Blue Phone 52 Health Sciences Parkade South West Ground Level	49.2633	-123.24768	Blue Phone 35 CEME East Mall & Applied Science Lane	49.2631	-123.2484	56.9305663097431
Blue Phone 56 North Parkade South East Level 3	Blue Phone 53 Health Sciences Parkade North East Bottom Level	49.2633	-123.24768	Blue Phone 35 CEME East Mall & Applied Science Lane	49.2631	-123.2484	56.9305663097431
Blue Phone S7 North Parkade South Entrance Level 3 49,26695 1,23,25005 Blue Phone 08 North Parkade © Skident Union Piaza 49,26647 1,23,25109 54,3466914740137	Blue Phone 54 Health Sciences Parkade North West Roof Top Level 5	49.2633	-123.24768	Blue Phone 35 CEME East Mall & Applied Science Lane	49.2631	-123.2484	56.9305663097431
Bue Phone 58 North Parkade South Exit Level 2 49,26695 132,32505 Blue Phone 08 North Parkade © Student Union Plaza 49,26647 123,25105 51,3466054974(137) Blue Phone 60 North Parkade Worth West Level 2 49,26695 123,25050 Blue Phone 08 North Parkade © Student Union Plaza 49,26647 123,25105 51,3466054974(137) Blue Phone 60 North Parkade Student Union Plaza 49,26647 123,25105 51,3466054974(137) Blue Phone 60 North Parkade Student Union Plaza 49,26647 123,25105 51,3466054974(137) Blue Phone 60 North Parkade Student Union Plaza 49,26647 123,25105 51,3466054974(137) Blue Phone 60 Rose Garden Parkade Bevator Level 3 49,26945 123,25568 Blue Phone 10 NASOC ® Northwest Marine Drive 49,26973 123,25721 55,4413500175715 Blue Phone 60 Rose Garden Parkade Bevator Level 3 49,26945 123,25568 Blue Phone 10 NASOC ® Northwest Marine Drive 49,26973 123,25721 55,4413500175715 Blue Phone 60 Rose Garden Parkade Bevator Level 1 49,26945 123,25568 Blue Phone 10 NASOC ® Northwest Marine Drive 49,26973 123,25721 55,4413500175715 Blue Phone 67 Thurderbrird Parkade Devator Level 1 49,26945 123,25568 Blue Phone 10 NASOC ® Northwest Marine Drive 49,26973 123,25721 55,4413500175715 Blue Phone 67 Thurderbrird Parkade West Level 1 49,26945 123,25568 Blue Phone 67 Northwest Marine Drive 49,26973 123,25721 55,4413500175715 Blue Phone 67 Thurderbrird Parkade North West Level 1 49,2619 123,24503 Blue Phone 27 TBIRD Parkade ® West Mall & Thurderbrird 49,2615 123,24169 32,4959118599444 Blue Phone 67 Thurderbrird Parkade North East Level 1 49,2619 123,24503 Blue Phone 27 TBIRD Parkade ® West Mall & Thurderbrird 49,2615 123,24169 32,4959118599444 Blue Phone 77 Thurderbrird Parkade North West Level 1 49,2619 123,23503 Blue Phone 25 St. John's @ Lover Mall & University Blud. 49,2615 123,24568 80,3005833797767 Blue Phone 78 West Parkade North West Level 4 49,2619 123,23559 Blue Phone 25 St	Blue Phone 56 North Parkade South East Level 3	49.26895	-123.25095	Blue Phone 08 North Parkade @ Student Union Plaza	49.26847	-123.25109	54.34680549740137
Bue Phone 69 North Parkade North Sat Level 3 49,26895 123,25905 Blue Phone 69 North Parkade 69 Student Union Plaza 49,26847 123,25109 54,34680549740137	Blue Phone 57 North Parkade South Entrance Level 3	49.26895	-123.25095	Blue Phone 08 North Parkade @ Student Union Plaza	49.26847	-123.25109	54.34680549740137
Blue Phone 60 North Parkade North East Level 3 49.2695 123.2595 Blue Phone 60 North Parkade © Student Union Plaza 49.2684 123.2510 54.34660549740137	Blue Phone 58 North Parkade South Exit Level 2	49.26895	-123.25095	Blue Phone 08 North Parkade @ Student Union Plaza	49.26847	-123.25109	54.34680549740137
Blue Phone 61 North Parkade South Side Rooffop Level 8 49,26857 123,25905 Blue Phone 62 Roos Garden Parkade Elevator Level 5 49,26945 123,25558 Blue Phone 62 Roos Garden Parkade Elevator Level 4 49,26945 123,25558 Blue Phone 63 Roos Garden Parkade Elevator Level 3 49,26945 123,25568 Blue Phone 63 Roos Garden Parkade Elevator Level 3 49,26945 123,25568 Blue Phone 61 ANSOC @ Northwest Marine Drive 49,26973 123,25721 55,2413500175715 Blue Phone 64 Roos Garden Parkade Elevator Level 2 49,26945 123,25568 Blue Phone 61 ANSOC @ Northwest Marine Drive 49,26973 123,25721 55,2413500175715 Blue Phone 65 Roos Garden Parkade Elevator Level 1 49,2695 123,2568 Blue Phone 61 ANSOC @ Northwest Marine Drive 49,26973 123,25721 55,4213500175715 Blue Phone 67 Thunderbird Parkade Elevator Level 1 49,2615 123,24303 Blue Phone 63 Thunderbird Parkade Elevator Level 1 49,2615 123,24303 Blue Phone 63 Thunderbird Parkade South West Level 1 49,2615 123,24303 Blue Phone 63 Thunderbird Parkade South East Level 1 49,2615 123,24303 Blue Phone 63 Thunderbird Parkade South East Level 1 49,2615 123,24303 Blue Phone 63 Thunderbird Parkade South East Level 1 49,2615 123,24303 Blue Phone 63 Thunderbird Parkade South East Level 1 49,2615 123,24303 Blue Phone 63 Thunderbird Parkade South East Level 1 49,2615 123,24303 Blue Phone 73 TRIBIO Parkade @ West Mall & Thunderbird Parkade South East Level 4 49,2615 123,24303 Blue Phone 73 TRIBIO Parkade @ West Mall & Thunderbird Parkade South East Level 4 49,2615 123,24303 Blue Phone 73 TRIBIO Parkade @ West Mall & Thunderbird Parkade South Level 2 49,2621 123,2533 Blue Phone 73 TRIBIO Parkade @ West Mall & Thunderbird Parkade South Level 2 49,2621 123,2533 Blue Phone 73 TRIBIO Parkade @ West Mall & Thunderbird Parkade South Level 2 49,2621 123,2533 Blue Phone 74 West Parkade Worth Level 4 49,2621 123,2533 Blue Phone 74 West Parkade Worth Level 4 49,2621 12	Blue Phone 59 North Parkade North West Level 2	49.26895	-123.25095	Blue Phone 08 North Parkade @ Student Union Plaza	49.26847	-123.25109	54.34680549740137
Blue Phone 62 Rose Garden Parkade Elevator Level 4 49,26945 123,25568 Blue Phone 63 Rose Garden Parkade Elevator Level 4 49,26945 123,25568 Blue Phone 63 Rose Garden Parkade Elevator Level 3 49,26945 123,25568 Blue Phone 64 Rose Garden Parkade Elevator Level 3 49,26945 123,25568 Blue Phone 65 Rose Garden Parkade Elevator Level 2 49,26945 123,25568 Blue Phone 64 Rose Garden Parkade Elevator Level 3 49,26945 123,25568 Blue Phone 61 ANSOC @ Northwest Marine Drive 49,26973 122,25721 55,42413500175715 Blue Phone 65 Rose Garden Parkade Elevator Level 1 49,26945 123,25688 Blue Phone 61 ANSOC @ Northwest Marine Drive 49,26973 122,25721 55,42413500175715 Blue Phone 66 Rose Garden Parkade Elevator Level 1 49,26159 123,24303 Blue Phone 67 Thunderbird Parkade West Mest Level 1 49,26159 123,24303 Blue Phone 68 Rose Garden Parkade Elevator Level 1 49,26159 123,24303 Blue Phone 97 Thunderbird Parkade South East Level 1 49,26159 123,24303 Blue Phone 97 Thunderbird Parkade South East Level 1 49,26159 123,24303 Blue Phone 77 Thunderbird Parkade South East Level 1 49,26159 123,24303 Blue Phone 77 Thunderbird Parkade South East Level 1 49,26159 123,24303 Blue Phone 77 Thunderbird Parkade South East Level 1 49,26159 123,24303 Blue Phone 77 Thunderbird Parkade South East Level 1 49,26159 123,24303 Blue Phone 77 Thunderbird Parkade South Level 2 49,26211 123,25259 Blue Phone 75 St. John's © Lover Mall & University Blvd. 49,26151 123,24189 33,34595118659444 Blue Phone 77 West Parkade North East Level 4 49,2615 123,22539 Blue Phone 75 St. John's © Lover Mall & University Blvd. 49,26311 123,25535 89,30058336797676 Blue Phone 75 West Parkade South East Level 4 49,26214 123,25539 Blue Phone 75 St. John's © Lover Mall & University Blvd. 49,26311 123,25535 89,30058336797676 Blue Phone 76 West Parkade South East Level 4 49,26214 123,23539 Blue Phone 75 St. John's © Lover Mall & Univ	Blue Phone 60 North Parkade North East Level 3	49.26895	-123.25095	Blue Phone 08 North Parkade @ Student Union Plaza	49.26847	-123.25109	54.34680549740137
Blue Phone 63 Rose Garden Parkade Elevator Level 3	Blue Phone 61 North Parkade South Side Rooftop Level 8	49.26895	-123.25095	Blue Phone 08 North Parkade @ Student Union Plaza	49.26847	-123.25109	54.34680549740137
Blue Phone 64 Rose Garden Parkade Elevator Level 3 49.26945 123.25558 Blue Phone 65 Rose Garden Parkade Elevator Level 2 49.26945 123.25558 Blue Phone 61 ANSOC @ Northwest Marine Drive 49.26973 123.25721 55.42413500175715 Blue Phone 66 Rose Garden Parkade Elevator Level 1 49.26945 123.25558 Blue Phone 01 ANSOC @ Northwest Marine Drive 49.26973 123.25721 55.42413500175715 Blue Phone 66 Thunderbird Parkade North West Level 1 49.26159 123.24303 Blue Phone 32 TBIRD Parkade @ West Mall & Thunderbird 49.26165 123.24189 83.24595118659444 Blue Phone 69 Thunderbird Parkade South East Level 1 49.26159 123.24303 Blue Phone 32 TBIRD Parkade @ West Mall & Thunderbird 49.26165 123.24189 83.24595118659444 Blue Phone 69 Thunderbird Parkade North West Earthand Earth 49.26151 123.24303 Blue Phone 32 TBIRD Parkade @ West Mall & Thunderbird 49.26165 123.24189 83.24595118659444 Blue Phone 71 West Parkade North West Earthand North Level 2 49.26281 123.25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49.26331 123.25635 89.30058336797676 Blue Phone 73 West Parkade North Knorth Corte 49.26281 123.25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49.26331 123.25635 89.30058336797676 Blue Phone 75 West Parkade North Knorth Corte 49.26241 49.26281 123.25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49.26331 123.25635 89.30058336797676 Blue Phone 75 West Parkade North Knorth Corte 49.26264 123.23491 Blue Phone 75 West Parkade North Knorth Corte 49.26264 123.23491 Blue Phone 75 West Parkade North Knorth Corte 49.26264 123.23491 Blue Phone 75 West Parkade North Knorth	Blue Phone 62 Rose Garden Parkade Elevator Level 5	49.26945	-123.25658	Blue Phone 01 ANSOC @ Northwest Marine Drive	49.26973	-123.25721	55.42413500175715
Blue Phone 65 Rose Garden Parkade Elevator Level 2 49.26945 123.25658 Blue Phone 66 Rose Garden Parkade Elevator Level 1 49.26945 123.25588 Blue Phone 67 Rose Garden Parkade Elevator Level 1 49.26159 123.25258 Blue Phone 67 Thunderbird Parkade North West Level 1 49.26159 123.24308 Blue Phone 63 TBIRD Parkade @ West Mall & Thunderbird 49.26165 123.24189 83.24595118659444 Blue Phone 68 Thunderbird Parkade North East Level 1 49.26159 123.24308 Blue Phone 32 TBIRD Parkade @ West Mall & Thunderbird 49.26165 123.24189 83.24595118659444 Blue Phone 69 Thunderbird Parkade North East Level 1 49.26159 123.24308 Blue Phone 32 TBIRD Parkade @ West Mall & Thunderbird 49.26165 123.24189 83.24595118659444 Blue Phone 70 Thunderbird Parkade North East Level 1 49.26159 123.24309 Blue Phone 32 TBIRD Parkade @ West Mall & Thunderbird 49.26165 123.24189 83.24595118659444 Blue Phone 71 West Parkade North East Level 1 49.26219 123.25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49.26331 123.25635 89.30058336797676 Blue Phone 71 West Parkade North Level 2 49.26211 123.25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49.26331 123.25635 89.30058336797676 Blue Phone 73 West Parkade North East Level 4 49.2621 123.25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49.26331 123.25635 89.30058336797676 Blue Phone 74 West Parkade North East Level 4 49.2621 123.25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49.26331 123.25635 89.30058336797676 Blue Phone 75 West Parkade North East Level 4 49.2621 123.23589 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49.26331 123.25635 89.30058336797676 Blue Phone 75 West Parkade North East Level 4 49.2621 123.23282 Blue Phone 75 North Parkade Suth East Level 4 49.2621 123.23282 Blue Phone 75 North Parkade Suth East Level 4 49.2621 123.23282 Blue Phone 75 North Parkade Suth East Lev	Blue Phone 63 Rose Garden Parkade Elevator Level 4	49.26945	-123.25658	Blue Phone 01 ANSOC @ Northwest Marine Drive	49.26973	-123.25721	55.42413500175715
Blue Phone 66 Rose Garden Parkade Elevator Level 1	Blue Phone 64 Rose Garden Parkade Elevator Level 3	49.26945	-123.25658	Blue Phone 01 ANSOC @ Northwest Marine Drive	49.26973	-123.25721	55.42413500175715
Blue Phone 67 Thunderbird Parkade North West Level 1 49,26159 -123,24303 Blue Phone 32 TBIRD Parkade @ West Mall & Thunderbird Parkade West Level 1 49,26159 -123,24303 Blue Phone 32 TBIRD Parkade @ West Mall & Thunderbird 49,2615 123,24189 83,24595118659444 Blue Phone 69 Thunderbird Parkade South East Level 1 49,26159 -123,24303 Blue Phone 32 TBIRD Parkade @ West Mall & Thunderbird 49,2615 123,24189 83,24595118659444 Blue Phone 71 West Parkade North East Level 1 49,26159 -123,24303 Blue Phone 32 TBIRD Parkade @ West Mall & Thunderbird 49,2615 123,24189 83,24595118659444 Blue Phone 71 West Parkade North West Entrance Level 1 49,26281 -123,25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49,2631 123,25635 89,30058336797676 Blue Phone 72 West Parkade North Level 2 49,26281 -123,25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49,2631 123,25635 89,30058336797676 Blue Phone 73 West Parkade North Level 4 49,26281 -123,25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49,2631 123,25635 89,30058336797676 Blue Phone 74 West Parkade North East Level 4 49,26281 -123,25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49,2631 123,25635 89,30058336797676 Blue Phone 75 West Parkade North Rooftop Level 11 49,26281 -123,25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49,2631 123,25635 89,30058336797676 Blue Phone 76 West Parkade North Rooftop Level 11 49,26281 -123,25539 Blue Phone 78 Osoyoos Crescent & Osoyoos Crescent	Blue Phone 65 Rose Garden Parkade Elevator Level 2	49.26945	-123.25658	Blue Phone 01 ANSOC @ Northwest Marine Drive	49.26973	-123.25721	55.42413500175715
Blue Phone 68 Thunderbird Parkade West Level 1 49,26159 -123,24303 Blue Phone 32 TBIRD Parkade @ West Mall & Thunderbird 49,26165 -123,24189 83,24595118659444 Blue Phone 70 Thunderbird Parkade South East Level 1 49,26159 -123,24303 Blue Phone 32 TBIRD Parkade @ West Mall & Thunderbird 49,26165 -123,24189 83,24595118659444 Blue Phone 70 Thunderbird Parkade North West Entrance Level 1 49,26261 -123,24303 Blue Phone 32 TBIRD Parkade @ West Mall & Thunderbird 49,26165 -123,24189 83,24595118659444 Blue Phone 70 Thunderbird Parkade South East Level 1 49,26281 -123,25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49,26311 -123,25539 83,2058336797676 Blue Phone 72 West Parkade North Level 2 49,26281 -123,25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49,26311 -123,25539 89,30058336797676 Blue Phone 74 West Parkade North East Level 4 49,26281 -123,25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49,26311 -123,25539 89,30058336797676 Blue Phone 75 West Parkade South East Level 4 49,26281 -123,25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49,26311 -123,25539 89,30058336797676 Blue Phone 75 West Parkade North Rooftop Level 11 49,26281 -123,25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49,26311 -123,25539 89,30058336797676 Blue Phone 75 West Parkade North Rooftop Level 11 49,26281 -123,23282 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49,26311 -123,25539 89,30058336797676 Blue Phone 77 Fairview Crescent & Osoyoos Cres	Blue Phone 66 Rose Garden Parkade Elevator Level 1	49.26945	-123.25658	Blue Phone 01 ANSOC @ Northwest Marine Drive	49.26973	-123.25721	55.42413500175715
Blue Phone 69 Thunderbird Parkade South East Level 1 49.26159 -123.24303 Blue Phone 32 TBIRD Parkade @ West Mall & Thunderbird 49.26165 -123.24189 83.24595118659444 Blue Phone 70 Thunderbird Parkade North East Level 1 49.26159 -123.24303 Blue Phone 32 TBIRD Parkade @ West Mall & Thunderbird 49.26165 -123.24189 83.24595118659444 Blue Phone 71 West Parkade South Level 2 49.26281 -123.25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49.26331 -123.25635 89.30058336797676 Blue Phone 73 West Parkade North Level 2 49.26281 -123.25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49.26331 -123.25635 89.30058336797676 Blue Phone 74 West Parkade North Level 2 49.26281 -123.25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49.26331 -123.25635 89.30058336797676 Blue Phone 75 West Parkade South East Level 4 49.26281 -123.25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49.26331 -123.25635 89.30058336797676 Blue Phone 75 West Parkade North Rooftop Level 1 49.26281 -123.25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49.26331 -123.25635 89.30058336797676 Blue Phone 76 West Parkade North Rooftop Level 1 49.26281 -123.25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49.26331 -123.25635 89.30058336797676 Blue Phone 77 Fairview Crescent & Osyonos Crescent & Osy	Blue Phone 67 Thunderbird Parkade North West Level 1	49.26159	-123.24303	Blue Phone 32 TBIRD Parkade @ West Mall & Thunderbird	49.26165	-123.24189	83.24595118659444
Blue Phone 70 Thunderbird Parkade North East Level 1 49,2615 123,24303 Blue Phone 32 TBIRD Parkade @ West Mall & Thunderbird 49,2616 -123,24189 83,24595118659444 Blue Phone 71 West Parkade North West Entrance Level 1 49,26281 123,25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49,2631 123,25535 89,30058336797676 Blue Phone 72 West Parkade South Level 2 49,26281 123,25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49,2631 123,25535 89,30058336797676 Blue Phone 73 West Parkade North East Level 4 49,26281 123,25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49,2631 123,25535 89,30058336797676 Blue Phone 74 West Parkade North East Level 4 49,26281 123,25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49,26331 123,25535 89,30058336797676 Blue Phone 75 West Parkade South East Level 4 49,26281 123,25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49,26331 123,25535 89,30058336797676 Blue Phone 76 West Parkade North Rooftop Level 11 49,26281 123,25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49,26331 123,25535 89,30058336797676 Blue Phone 77 Fairview Crescent & Osyonos Cres	Blue Phone 68 Thunderbird Parkade West Level 1	49.26159	-123.24303	Blue Phone 32 TBIRD Parkade @ West Mall & Thunderbird	49.26165	-123.24189	83.24595118659444
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Blue Phone 72 West Parkade South Level 2	Blue Phone 70 Thunderbird Parkade North East Level 1	49.26159	-123.24303	Blue Phone 32 TBIRD Parkade @ West Mall & Thunderbird	49.26165	-123.24189	83.24595118659444
Blue Phone 73 West Parkade North East Level 4 49.26281 -123.25535 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49.26331 -123.25635 89.30058336797676 Blue Phone 75 West Parkade South East Level 4 49.26281 -123.25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49.26331 -123.25635 89.30058336797676 Blue Phone 76 West Parkade North Rooftop Level 11 49.26281 -123.25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49.26331 -123.25635 89.30058336797676 Blue Phone 76 West Parkade North Rooftop Level 11 49.26281 -123.25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49.26331 -123.25635 89.30058336797676 Blue Phone 77 Fairview Crescent & Osoyoos Crescent & 49.26072 -123.2382 Blue Phone 78 Osoyoos Crescent & Oyama Court 49.26072 -123.2382 Blue Phone 79 Point Grey Apartments 49.25671 -123.2382 Blue Phone 79 Point Grey Apartments 49.25961 -123.23727 Blue Phone 80 Osoyoos Crescent & Acadia Park Lane 49.25967 -123.2382 Blue Phone 78 Point Grey Apartments 49.25967 -123.2382 Blue Phone 79 Point Grey Apartments 49.25961 -123.23727 Blue Phone 81 University Blvd Lot Stairs 1 49.26659 -123.24925 Blue Phone 82 University Blvd Lot Stairs 2 49.26662 -123.24912 Blue Phone 82 University Blvd Lot Stairs 3 49.26662 -123.24912 Blue Phone 81 University Blvd Lot Stairs 1 49.26659 -123.24925 Blue Phone 81 University Blvd Lot Stairs 1 49.26659 -123.24925 Blue Phone 81 University Blvd Lot Stairs 1 49.26659 -123.24925 Blue Phone 81 University Blvd Lot Stairs 1 49.26659 -123.24925 Blue Phone 81 University Blvd Lot Stairs 1 49.26659 -123.24925 Blue Phone 81 University Blvd Lot Stairs 1 49.26659 -123.24925 Blue Phone 81 University Blvd Lot Stairs 1 49.26659 -123.24925 Blue Phone 81 University Blvd Lot Stairs 1 49.26659 -123.24925 Blue Phone 81 University Blvd Lot Stairs 1 49.26659 -123.24925 Blue Phone 81 University Blvd Lot Stairs 1 49.26659 -123.24925 Blue Phone 81 University Blvd Lot Stairs 1 49.26659 -123.24925 Blue Phone 81 University Blvd Lot Stairs 1 49.26659 -123.24925 Blue Phone 81 Universi	Blue Phone 71 West Parkade North West Entrance Level 1	49.26281	-123.25539	Blue Phone 25 St. John's @ Lower Mall & University Blvd.	49.26331	-123.25635	89.30058336797676
Blue Phone 74 West Parkade North East Level 4 49.26281 -123.25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49.26331 -123.25635 89.30058336797676 Blue Phone 75 West Parkade South East Level 4 49.26281 -123.25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49.26331 -123.25635 89.30058336797676 Blue Phone 76 West Parkade North Rooftop Level 11 49.26281 -123.23539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49.26331 -123.25635 89.30058336797676 Blue Phone 77 Fairview Crescent & Osoyoos Crescent & 49.26072 -123.2382 Blue Phone 78 Osoyoos Crescent & Oyama Court 49.26072 -123.2382 Blue Phone 79 Point Grey Apartments 49.25961 -123.23727 Blue Phone 79 Point Grey Apartments 49.25961 -123.23727 Blue Phone 79 Point Grey Apartments 49.25961 -123.23727 Blue Phone 80 Osoyoos Crescent & Acadia Park Lane 49.25967 -123.23522 Blue Phone 79 Point Grey Apartments 49.25961 -123.23727 Blue Phone 81 University Blvd Lot Stairs 2 49.26662 -123.24912 Blue Phone 82 University Blvd Lot Stairs 3 49.26659 -123.24912 Blue Phone 83 University Blvd Lot Stairs 3 -123.24925 Blue Phone 84 University Blvd Lot Stairs 3 -123.24925 Blue Phone 84 University Blvd Lot Stairs 4 -123.24925 Blue Phone 85 Health Science Pkd Rooftop Level 5 -123.24971 Blue Phone 85 Saltwater Orca House -123.24912 Blue Phone 87 -123.2383 Blue Phone 87 -123.2383 Blue Phone 87 -123.2383 Blue Phone 89 -123.24935 Blue Phone 89 -123.24938 Blue Phone 89 -123.24935 Blue Phone 89	Blue Phone 72 West Parkade South Level 2	49.26281	-123.25539	Blue Phone 25 St. John's @ Lower Mall & University Blvd.	49.26331	-123.25635	89.30058336797676
Blue Phone 75 West Parkade South East Level 4 49.26281 1-123.25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49.26331 -123.25635 89.30058336797676 Blue Phone 76 West Parkade North Rooftop Level 11 49.26281 -123.25539 Blue Phone 75 Gosyoos Crescent & Oyama Court 49.26072 -123.2382 Blue Phone 78 Osyoos Crescent & Oyama Court 49.26072 -123.2382 Blue Phone 78 Osyoos Crescent & Oyama Court 49.26072 -123.2382 Blue Phone 79 Point Grey Apartments 49.25961 -123.23727 Blue Phone 79 Point Grey Apartments 49.25961 -123.23727 Blue Phone 79 Point Grey Apartments 49.25967 -123.2382 Blue Phone 79 Point Grey Apartments 49.25961 -123.23727 Blue Phone 80 Osyoos Crescent & Oyama Court 49.26072 -123.2382 Blue Phone 80 Osyoos Crescent & Acadia Park Lane 49.25967 -123.23522 Blue Phone 79 Point Grey Apartments 49.25961 -123.23727 Blue Phone 81 University Blvd Lot Stairs 2 49.26662 -123.24912 Blue Phone 82 University Blvd Lot Stairs 1 49.26659 -123.24912 Blue Phone 83 University Blvd Lot Stairs 1 49.26659 -123.24912 Blue Phone 83 University Blvd Lot Stairs 1 49.26659 -123.24912 Blue Phone 84 University Blvd Lot Stairs 1 49.26659 -123.24912 Blue Phone 84 University Blvd Lot Stairs 1 49.26659 -123.24912 Blue Phone 84 University Blvd Lot Stairs 1 49.26659 -123.24912 Blue Phone 84 University Blvd Lot Stairs 1 49.26659 -123.24925 10.032501364767866 Blue Phone 85 Health Science Pkd Rooftop Level 5 49.2661 Blue Phone 85 Saltwater Orca House 49.2697 -123.2485 Blue Phone 87 Blue Phone 87 Blue Phone 88 Blue Phone 89 Blue P	Blue Phone 73 West Parkade North Level 2	49.26281	-123.25539	Blue Phone 25 St. John's @ Lower Mall & University Blvd.	49.26331	-123.25635	89.30058336797676
Blue Phone 76 West Parkade North Rooftop Level 11 49.26281 -123.25539 Blue Phone 25 St. John's @ Lower Mall & University Blvd. 49.26331 -123.25635 89.30058336797676 Blue Phone 77 Fairview Crescent & Osoyoos Crescent & Osoy	Blue Phone 74 West Parkade North East Level 4	49.26281	-123.25539	Blue Phone 25 St. John's @ Lower Mall & University Blvd.	49.26331	-123.25635	89.30058336797676
Blue Phone 77 Fairview Crescent & Osoyoos Crescent & 49.2672 - 123.2382 198.38064120158887 Blue Phone 78 Osoyoos Crescent & Oyama Court 49.26072 - 123.2382 198.38064120158887 Blue Phone 78 Osoyoos Crescent & Oyama Court 49.26072 - 123.2382 10.79087555857794 Blue Phone 79 Point Grey Apartments 49.25961 - 123.23727 10.79087555857794 Blue Phone 80 Osoyoos Crescent & Acadia Park Lane 49.25967 - 123.23522 10.79087555857794 Blue Phone 81 University Blvd Lot Stairs 1 49.26659 - 123.24925 10.79087555857794 Blue Phone 82 University Blvd Lot Stairs 2 49.26662 - 123.24912 10.032501364767866 Blue Phone 83 University Blvd Lot Stairs 3 49.26662 - 123.24912 10.032501364767866 Blue Phone 84 University Blvd Lot Stairs 1 49.26659 - 123.24925 10.032501364767866 Blue Phone 84 University Blvd Lot Stairs 1 49.26659 - 123.24925 10.032501364767866 Blue Phone 85 University Blvd Lot Stairs 1 49.26659 - 123.24925 10.032501364767866 Blue Phone 84 University Blvd Lot Stairs 1 49.26659 - 123.24925 10.032501364767866 Blue Phone 84 University Blvd Lot Stairs 1 49.26659 - 123.24925 10.032501364767866 Blue Phone 85 Health Science Pkd Rooftop Level 5 49.2633 - 123.24768 Blue Phone 85 CEME East Mall & Applied Science Lane 49.2631 - 123.2484 56.9305663097431 Blue Phone 85 Saltwater Orca House 49.26915 - 123.2485 Blue Phone 87 49.26927 - 123.2485 42.88441156150479 Blue Phone 87 49.26927 - 123.2485 Blue Phone 88 Saltwater Sturgeon House 49.26915 - 123.2485 42.88441156150479 Blue Phone 88 49.27007 - 123.24837 Blue Phone 89 49.27075 - 123.24798 80.77665730552323	Blue Phone 75 West Parkade South East Level 4	49.26281	-123.25539	Blue Phone 25 St. John's @ Lower Mall & University Blvd.	49.26331	-123.25635	89.30058336797676
Blue Phone 78 Osoyoos Crescent & Oyama Court 49.26072 -123.2382 Blue Phone 79 Point Grey Apartments 49.25961 -123.23727 140.79087555857794 Blue Phone 79 Point Grey Apartments 49.25961 -123.23727 Blue Phone 79 Point Grey Apartments 49.25961 -123.23727 140.79087555857794 Blue Phone 80 Osoyoos Crescent & Acadia Park Lane 49.25967 -123.23522 Blue Phone 79 Point Grey Apartments 49.25961 -123.23727 149.3700543826124 Blue Phone 81 University Blvd Lot Stairs 1 49.26659 -123.24925 Blue Phone 82 University Blvd Lot Stairs 2 49.26662 -123.24912 Blue Phone 82 University Blvd Lot Stairs 1 49.26659 -123.24925 Blue Phone 83 University Blvd Lot Stairs 1 49.26659 -123.24925 Blue Phone 83 University Blvd Lot Stairs 1 49.26659 -123.24925 10.032501364767866 Blue Phone 83 University Blvd Lot Stairs 3 49.26662 -123.24912 Blue Phone 81 University Blvd Lot Stairs 1 49.26659 -123.24925 10.032501364767866 Blue Phone 84 University Blvd Lot Stairs 1 49.26659 -123.24925 10.032501364767866 Blue Phone 84 University Blvd Lot Stairs 1 49.26659 -123.24925 10.032501364767866 Blue Phone 85 Health Science Pkd Rooftop Level 5 49.2633 -123.24768 Blue Phone 85 CEME East Mall & Applied Science Lane 49.2631 -123.2484 56.9305663097431 Blue Phone 85 Saltwater Orca House 49.26915 -123.24856 Blue Phone 87 49.26927 -123.2486 Blue Phone 87 49.26927 -123.2486 Blue Phone 87 49.26927 -123.2486 Blue Phone 88 Saltwater Sturgeon House 49.26915 -123.24856 42.88441156150479 Blue Phone 88 49.2707 -123.2483 Blue Phone 89 49.27075 -123.24798 80.77665730552232	Blue Phone 76 West Parkade North Rooftop Level 11	49.26281	-123.25539	Blue Phone 25 St. John's @ Lower Mall & University Blvd.	49.26331	-123.25635	89.30058336797676
Blue Phone 79 Point Grey Apartments 49.25961 -123.23727 Blue Phone 78 Osoyoos Crescent & Oyama Court 49.26072 -123.2382 140.79087555857794 Blue Phone 80 Osoyoos Crescent & Acadia Park Lane 49.25967 -123.23522 Blue Phone 79 Point Grey Apartments 49.25961 -123.23727 149.3700543826124 Blue Phone 81 University Blvd Lot Stairs 1 49.26659 -123.24925 Blue Phone 82 University Blvd Lot Stairs 2 49.26662 -123.24912 Blue Phone 82 University Blvd Lot Stairs 1 49.26659 -123.24925 Blue Phone 83 University Blvd Lot Stairs 1 49.26659 -123.24925 10.032501364767866 Blue Phone 83 University Blvd Lot Stairs 3 49.26662 -123.24912 Blue Phone 81 University Blvd Lot Stairs 1 49.26659 -123.24925 10.032501364767866 Blue Phone 84 University Blvd Lot Stairs 1 49.26659 -123.24925 10.032501364767866 Blue Phone 84 University Blvd Lot Stairs 1 49.26659 -123.24925 10.032501364767866 Blue Phone 84 University Blvd Lot Stairs 1 49.26659 -123.24925 10.032501364767866 Blue Phone 84 University Blvd Lot Stairs 1 49.26659 -123.24925 10.032501364767866 Blue Phone 85 Health Science Pkd Rooftop Level 5 49.2633 -123.24768 Blue Phone 35 CEME East Mall & Applied Science Lane 49.2631 -123.2484 56.930563097431 Blue Phone 85 Saltwater Orca House 49.26915 -123.24951 Blue Phone 86 North Parkade South East Level 3 49.26957 -123.2484 42.88441156150479 Blue Phone 87 49.26927 -123.2488 Blue Phone 86 Saltwater Sturgeon House 49.26915 -123.24856 42.88441156150479 Blue Phone 88 Blue Phone 88 Blue Phone 89 49.27075 -123.2498 80.77665730552232	Blue Phone 77 Fairview Crescent & Osoyoos Crescent	49.26246	-123.2388	Blue Phone 78 Osoyoos Crescent & Oyama Court	49.26072	-123.2382	198.38064120158887
Blue Phone 80 Osoyoos Crescent & Acadia Park Lane 49.25967 -123.23522 Blue Phone 79 Point Grey Apartments 49.25961 -123.23727 -149.3700543826124 Blue Phone 81 University Blvd Lot Stairs 2 49.26662 -123.24912 Blue Phone 82 University Blvd Lot Stairs 2 49.26662 -123.24912 Blue Phone 81 University Blvd Lot Stairs 1 49.26659 -123.24925 Blue Phone 81 University Blvd Lot Stairs 1 49.26659 -123.24925 Blue Phone 83 University Blvd Lot Stairs 1 49.26659 -123.24925 Blue Phone 83 University Blvd Lot Stairs 1 49.26659 -123.24925 -10.032501364767866 Blue Phone 84 University Blvd Lot Stairs 1 49.26659 -123.24925 -10.032501364767866 Blue Phone 84 University Blvd Lot Stairs 1 49.26659 -123.24925 -10.032501364767866 Blue Phone 84 University Blvd Lot Stairs 1 49.26659 -123.24925 -123.24925 -123.24912 Blue Phone 81 University Blvd Lot Stairs 1 49.26659 -123.24925	Blue Phone 78 Osoyoos Crescent & Oyama Court	49.26072	-123.2382	Blue Phone 79 Point Grey Apartments	49.25961	-123.23727	140.79087555857794
Blue Phone 81 University Blvd Lot Stairs 2 49.26662 -123.24912 10.032501364767866 Blue Phone 82 University Blvd Lot Stairs 2 49.26662 -123.24912 Blue Phone 82 University Blvd Lot Stairs 1 49.26659 -123.24925 10.032501364767866 Blue Phone 83 University Blvd Lot Stairs 3 49.26662 -123.24912 Blue Phone 81 University Blvd Lot Stairs 1 49.26659 -123.24925 10.032501364767866 Blue Phone 84 University Blvd Lot Stairs 1 49.26659 -123.24925 10.032501364767866 Blue Phone 84 University Blvd Lot Stairs 1 49.26659 -123.24925 10.032501364767866 Blue Phone 84 University Blvd Lot Stairs 1 49.26659 -123.24925 10.032501364767866 Blue Phone 85 Health Science Pkd Rooftop Level 5 49.2633 -123.24768 Blue Phone 35 CEME East Mall & Applied Science Lane 49.2631 -123.2484 56.930563097431 Blue Phone 85 Saltwater Orca House 49.2697 -123.2485 Blue Phone 86 North Parkade South East Level 3 49.2695 -123.2495 92.94444610340688 Blue Phone 86 Saltwater Sturgeon House 49.2697 -123.248 42.88441156150479 Blue Phone 87 49.26927 -123.2488 Blue Phone 86 Saltwater Sturgeon House 49.26915 -123.24958 80.77665730552323	Blue Phone 79 Point Grey Apartments	49.25961	-123.23727	Blue Phone 78 Osoyoos Crescent & Oyama Court	49.26072	-123.2382	140.79087555857794
Blue Phone 82 University Blvd Lot Stairs 2 49.26662 -123.24912 Blue Phone 81 University Blvd Lot Stairs 1 49.26659 -123.24925 10.032501364767866 Blue Phone 83 University Blvd Lot Stairs 3 49.26662 -123.24912 Blue Phone 81 University Blvd Lot Stairs 1 49.26659 -123.24925 10.032501364767866 Blue Phone 84 University Blvd Lot Stairs 4 49.26662 -123.24912 Blue Phone 81 University Blvd Lot Stairs 1 49.26659 -123.24925 10.032501364767866 Blue Phone 85 Health Science Pkd Rooftop Level 5 49.2633 -123.24768 Blue Phone 35 CEME East Mall & Applied Science Lane 49.2631 -123.24945 56.9305663097431 Blue Phone 85 Saltwater Orca House 49.26875 -123.24971 Blue Phone 86 North Parkade South East Level 3 49.26955 -123.24959 92.94444610340688 Blue Phone 86 Saltwater Sturgeon House 49.26915 -123.2485 Blue Phone 87 49.26927 -123.248 42.88441156150479 Blue Phone 88 49.2707 -123.2483 Blue Phone 89 49.2705 -123.24759 80.77665730552232	Blue Phone 80 Osoyoos Crescent & Acadia Park Lane	49.25967	-123.23522	Blue Phone 79 Point Grey Apartments	49.25961	-123.23727	149.3700543826124
Blue Phone 83 University Blvd Lot Stairs 3 49.26662 -123.24912 Blue Phone 81 University Blvd Lot Stairs 1 49.26659 -123.24925 10.032501364767866 Blue Phone 84 University Blvd Lot Stairs 4 49.26662 -123.24912 Blue Phone 81 University Blvd Lot Stairs 1 49.26659 -123.24925 10.032501364767866 Blue Phone 55 Health Science Pkd Rooftop Level 5 49.2633 -123.24768 Blue Phone 35 CEME East Mall & Applied Science Lane 49.2631 -123.2484 56.9305663097431 Blue Phone 85 Saltwater Orca House 49.26875 -123.24971 Blue Phone 56 North Parkade South East Level 3 49.26895 -123.25095 92.94444610340688 Blue Phone 86 Saltwater Sturgeon House 49.26915 -123.2485 Blue Phone 87 49.26927 -123.248 42.88441156150479 Blue Phone 87 49.26927 -123.2488 Blue Phone 86 Saltwater Sturgeon House 49.26915 -123.24856 42.88441156150479 Blue Phone 88 49.2707 -123.24837 Blue Phone 89 49.2707 -123.2487 Blue Phone 89	Blue Phone 81 University Blvd Lot Stairs 1	49.26659	-123.24925	Blue Phone 82 University Blvd Lot Stairs 2	49.26662	-123.24912	10.032501364767866
Blue Phone 84 University Blvd Lot Stairs 4 49.26662 -123.24912 Blue Phone 81 University Blvd Lot Stairs 1 49.26659 -123.24925 10.032501364767866 Blue Phone 55 Health Science Pkd Rooftop Level 5 49.2633 -123.24768 Blue Phone 35 CEME East Mall & Applied Science Lane 49.2631 -123.2484 56.9305663097431 Blue Phone 85 Saltwater Orca House 49.26875 -123.24971 Blue Phone 56 North Parkade South East Level 3 49.26955 -123.24955 92.94444610340688 Blue Phone 86 Saltwater Sturgeon House 49.26975 -123.2485 Blue Phone 87 49.26927 -123.2485 Blue Phone 86 Saltwater Sturgeon House 49.26915 -123.24856 42.88441156150479 Blue Phone 88 49.27070 -123.24837 Blue Phone 89 49.27075 -123.24856 42.88441156150479	Blue Phone 82 University Blvd Lot Stairs 2	49.26662	-123.24912	Blue Phone 81 University Blvd Lot Stairs 1	49.26659	-123.24925	10.032501364767866
Blue Phone 55 Health Science Pkd Rooftop Level 5 49.2633 -123.24768 Blue Phone 35 CEME East Mall & Applied Science Lane 49.2631 -123.2484 56.9305663097431 Blue Phone 85 Saltwater Orca House 49.26875 -123.24971 Blue Phone 56 North Parkade South East Level 3 49.26955 -123.25095 92.94444610340688 Blue Phone 86 Saltwater Sturgeon House 49.26915 -123.2486 Blue Phone 87 49.26917 -123.248 Blue Phone 86 Saltwater Sturgeon House 49.26915 -123.2486 42.88441156150479 Blue Phone 87 49.27007 -123.2483 Blue Phone 89 49.27075 -123.24798 80.77665730552232 Blue Phone 88 49.27075 -123.24798 80.77665730552232	Blue Phone 83 University Blvd Lot Stairs 3	49.26662	-123.24912	Blue Phone 81 University Blvd Lot Stairs 1	49.26659	-123.24925	10.032501364767866
Blue Phone 85 Saltwater Orca House 49.26875 -123.24971 Blue Phone 56 North Parkade South East Level 3 49.26895 -123.25095 92.94444610340688 Blue Phone 86 Saltwater Sturgeon House 49.26915 -123.24856 Blue Phone 87 49.26927 -123.248 Blue Phone 86 Saltwater Sturgeon House 49.26915 -123.24856 42.88441156150479 Blue Phone 88 49.27007 -123.2483 Blue Phone 89 49.27075 -123.24798 80.77665730552232	Blue Phone 84 University Blvd Lot Stairs 4	49.26662	-123.24912	Blue Phone 81 University Blvd Lot Stairs 1	49.26659	-123.24925	10.032501364767866
Blue Phone 86 Saltwater Sturgeon House 49.26915 -123.24856 Blue Phone 87 49.26927 -123.2486 42.88441156150479 Blue Phone 87 49.26927 -123.2488 Blue Phone 86 Saltwater Sturgeon House 49.26915 -123.2485 42.88441156150479 Blue Phone 88 49.27007 -123.24837 Blue Phone 89 49.27075 -123.24788 80.77665730552232	Blue Phone 55 Health Science Pkd Rooftop Level 5	49.2633	-123.24768	Blue Phone 35 CEME East Mall & Applied Science Lane	49.2631	-123.2484	56.9305663097431
Blue Phone 87 49.26927 -123.248 Blue Phone 86 Saltwater Sturgeon House 49.26915 -123.2485 42.88441156150479 Blue Phone 88 49.27007 -123.24837 Blue Phone 89 49.2705 -123.2478 80.77665730552232	Blue Phone 85 Saltwater Orca House	49.26875	-123.24971	Blue Phone 56 North Parkade South East Level 3	49.26895	-123.25095	92.94444610340688
Blue Phone 88 49.27007 -123.24837 Blue Phone 89 49.2705 -123.24798 80.77665730552232	Blue Phone 86 Saltwater Sturgeon House	49.26915	-123.24856	Blue Phone 87	49.26927	-123.248	42.88441156150479
	Blue Phone 87	49.26927	-123.248	Blue Phone 86 Saltwater Sturgeon House	49.26915	-123.24856	42.88441156150479
Blue Phone 89 49.27075 -123.24798 Blue Phone 88 49.27007 -123.24837 80.7765730552232	Blue Phone 88	49.27007	-123.24837	Blue Phone 89	49.27075	-123.24798	80.77665730552232
	Blue Phone 89	49.27075	-123.24798	Blue Phone 88	49.27007	-123.24837	80.77665730552232

Mathematical Model

 ${\rm Git Hub~Repository:~https://github.com/AllenCheng5186/VANT149-Group9-Research-Project}$

 $Data\ set\ folder:\ https://github.com/AllenCheng5186/VANT149-Group9-Research-Project/tree/main/data$

Main Jupyter Notebook: https://github.com/AllenCheng5186/VANT149-Group9-Research-Project/blob/main/Main%20Ready%20for%20Print.ipynb

```
In [1]: library(tidyverse)
        library(sf)
        library(mapview)
        library(rvest)
        library(httr)
        library(ggplot2)
        library(ggmap)
        library(maps)
        library(ggsn)
        library(geosphere)
        library(dplyr)
        library(RColorBrewer)
        library(readxl)
        library(leaflet)
        library(leaflet.extras)
        library(plot3D)
        library(av)
        library(rayshader)
        library(lattice)
        library(latticeExtra)
```

```
- Attaching core tidyverse packages -

    tidyverse

2.0.0 —
           1.1.2
✓ dplyr
                       ✓ readr
                                   2.1.4
                     ✓ stringr
                                   1.5.0
✓ forcats 1.0.0

✓ tibble

✓ ggplot2 3.4.2

                                   3.2.1
✓ lubridate 1.9.2

✓ tidyr

                                   1.3.0
✓ purrr
            1.0.1
— Conflicts ——
                                                   tidyverse conflic
ts() —
* dplyr::filter() masks stats::filter()
* dplyr::lag() masks stats::lag()
i Use the conflicted package (<a href="http://conflicted.r-lib.org/">http://conflicted.r-lib.org/</a>) to force al
1 conflicts to become errors
Linking to GEOS 3.11.0, GDAL 3.5.3, PROJ 9.1.0; sf use s2() is TRUE
The legacy packages maptools, rgdal, and rgeos, underpinning this package
will retire shortly. Please refer to R-spatial evolution reports on
https://r-spatial.org/r/2023/05/15/evolution4.html (https://r-spatial.or
g/r/2023/05/15/evolution4.html) for details.
This package is now running under evolution status 0
Attaching package: 'rvest'
The following object is masked from 'package:readr':
    guess encoding
i Google's Terms of Service: <a href="https://mapsplatform.google.com">https://mapsplatform.google.com</a>
i Please cite ggmap if you use it! Use `citation("ggmap")` for details.
Attaching package: 'maps'
The following object is masked from 'package:purrr':
    map
Loading required package: grid
Warning message:
"multiple methods tables found for 'elide'"
Attaching package: 'latticeExtra'
The following object is masked from 'package:ggplot2':
    layer
```

In [2]: Bluephone_location <- read_csv("data/Bluephone Locations My Map Downloaded
head(Bluephone_location)</pre>

Rows: 89 Columns: 4
— Column specification

Delimiter: ","

chr (2): Formal_Name_and_Room, Street_Address

dbl (2): Latitude, Longitude

- i Use `spec()` to retrieve the full column specification for this data.
- i Specify the column types or set `show_col_types = FALSE` to quiet this
 message.

A tibble: 6 × 4

Longitude	Latitude	Street_Address	Formal_Name_and_Room		
<dbl></dbl>	<dbl></dbl>	<chr></chr>	<chr></chr>		
-123.2572	49.26973	6303 N W MARINE DR at ANSOC Building	Blue Phone 01 ANSOC @ Northwest Marine Drive		
-123.2566	49.26894	Main Mall & Crescent Road	Blue Phone 03 Flagpole Plaza @ Main Mall & Crescent Road		
-123.2550	49.26777	Main Mall & Memorial Road	Blue Phone 04 Wyman Plaza @ Main Mall & Memorial Road		
-123.2575	49.26497	2008 LOWER MALL Ponderosa Annex F	Blue Phone 05 Ponderosa F @ Lower Mall & Pedestrian Path		
-123.2562	49.26534	2011 WEST MALL Ponderosa Annex A	Blue Phone 06 Ponderosa A @ West Mall & Agricultural Road		
-123.2518	49.26697	6224 AGRICULTURAL RD/EAST MALL Hennings Bldg	Blue Phone 07 Hennings @ East Mall & Agricultural Road		

In [3]: Bluephone_location <- Bluephone_location |>
 mutate(across(Longitude, as.double))

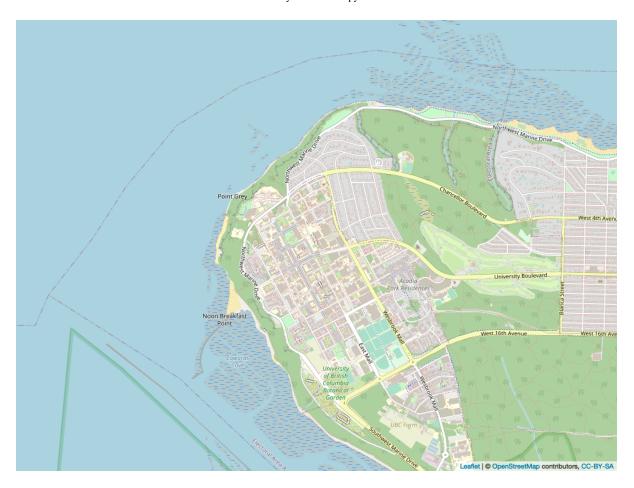
In [4]: head(Bluephone_location)

A tibble: 6×4

Formal_Name_and_Room	Street_Address	Latitude	Longitude
<chr></chr>	<chr></chr>	<dbl></dbl>	<dbl></dbl>
Blue Phone 01 ANSOC @ Northwest Marine Drive	6303 N W MARINE DR at ANSOC Building	49.26973	-123.2572
Blue Phone 03 Flagpole Plaza @ Main Mall & Crescent Road	Main Mall & Crescent Road	49.26894	-123.2566
Blue Phone 04 Wyman Plaza @ Main Mall & Memorial Road	Main Mall & Memorial Road	49.26777	-123.2550
Blue Phone 05 Ponderosa F @ Lower Mall & Pedestrian Path	2008 LOWER MALL Ponderosa Annex F	49.26497	-123.2575
Blue Phone 06 Ponderosa A @ West Mall & Agricultural Road	2011 WEST MALL Ponderosa Annex A	49.26534	-123.2562
Blue Phone 07 Hennings @ East Mall & Agricultural Road	6224 AGRICULTURAL RD/EAST MALL Hennings Bldg	49.26697	-123.2518
<pre>base map <- leaflet() %>%</pre>			

```
In [5]: base_map <- leaflet() %>%
        addTiles() %>%
        fitBounds(-123.22,49.263,-123.28,49.27)
#base_map
```

```
In [6]: # save the map view
mapshot(base_map, file = "Map Image Save/base map.png")
```



```
In [8]: # save the map view
mapshot(bluephone_map, file = "Map Image Save/bluephone map.png")
```



```
In [10]: # save the map view
mapshot(bluephone_heatmap, file = "Map Image Save/bluephone heatmap.png")
```



In [11]: head(Bluephone_location)

A tibble: 6×4

Formal_Name_and_Room	Street_Address	Latitude	Longitude
<chr></chr>	<chr></chr>	<dbl></dbl>	<dbl></dbl>
Blue Phone 01 ANSOC @ Northwest Marine Drive	6303 N W MARINE DR at ANSOC Building	49.26973	-123.2572
Blue Phone 03 Flagpole Plaza @ Main Mall & Crescent Road	Main Mall & Crescent Road	49.26894	-123.2566
Blue Phone 04 Wyman Plaza @ Main Mall & Memorial Road	Main Mall & Memorial Road	49.26777	-123.2550
Blue Phone 05 Ponderosa F @ Lower Mall & Pedestrian Path	2008 LOWER MALL Ponderosa Annex F	49.26497	-123.2575
Blue Phone 06 Ponderosa A @ West Mall & Agricultural Road	2011 WEST MALL Ponderosa Annex A	49.26534	-123.2562
Blue Phone 07 Hennings @ East Mall & Agricultural Road	6224 AGRICULTURAL RD/EAST MALL Hennings Bldg	49.26697	-123.2518

```
In [13]:
         first bluephone <- Bluephone location[89, ]
         first bluephone
         first bluephone lon lat <- select(first bluephone, Longitude, Latitude)
         first_bluephone_lon_lat
         rest bluephone <- Bluephone location |>
                 filter(Latitude != pull(first bluephone, Latitude))
         Bluephone distance <- rest bluephone |>
                 group by (Formal Name and Room, Latitude, Longitude) |>
                 summarize(distance = distGeo(first bluephone lon lat, c(Longitude,
                 arrange(distance) >
                 head(1) >
                 mutate(Bluephone origin = pull(first bluephone, Formal Name and Roo
                        origin Lat = pull(first bluephone, Latitude),
                        origin Lon = pull(first bluephone, Longitude)) |>
                 select(Bluephone origin, origin Lat, origin Lon, Formal Name and Ro
         colnames(Bluephone distance) <- c("Bluephone origin", "origin Lat", "origin
         Bluephone distance
```

A tibble: 1 × 4

Formal_Name_and_RoomStreet_AddressLatitudeLongitude<chr><chr><chr><chr><dbl>
Blue Phone 89 Saltwater Octopus House 49.27075 -123.248

A tibble: 1 × 2

Longitude Latitude

<dbl> <dbl>

-123.248 49.27075

`summarise()` has grouped output by 'Formal_Name_and_Room', 'Latitude'. Y ou can override using the `.groups` argument.

A grouped_df: 1 × 7

 Bluephone_origin
 origin_Lat
 origin_Lon
 closest_Bluephone
 closest_lat
 closest_lon
 distance

 <chr>
 <dbl>
 <

A tibble: 0×7

```
In [15]: bluephone closest distance <- filter(Bluephone distance, Bluephone origin =
         options(dplyr.summarise.inform = FALSE) #disable dplyr messages in code
         for (i in 1:89){
             first bluephone <- Bluephone location[i, ]</pre>
             first_bluephone_lon_lat <- select(first_bluephone, Longitude, Latitude)</pre>
             rest bluephone <- Bluephone location |>
                 filter(Latitude != pull(first bluephone, Latitude))
             Bluephone distance <- rest bluephone |>
                 group by (Formal Name and Room, Latitude, Longitude) >
                 summarize(distance = distGeo(first bluephone lon lat, c(Longitude,
                 arrange(distance) |>
                 head(1)
                 mutate(Bluephone origin = pull(first bluephone, Formal Name and Roo
                        origin Lat = pull(first bluephone, Latitude),
                        origin Lon = pull(first bluephone, Longitude)) |>
                 select(Bluephone origin, origin Lat, origin Lon, Formal Name and Ro
             colnames(Bluephone distance) <- c("Bluephone origin", "origin Lat", "or</pre>
                                                "closest_Bluephone", "closest_lat",
             bluephone closest distance <- bind rows(bluephone closest distance, Blu
         }
         head(bluephone closest distance)
```

A grouped_df: 6 × 7

Bluephone_origin	origin_Lat	origin_Lon	closest_Bluephone	closest_lat	closest_lon	distance
<chr></chr>	<dbl></dbl>	<dbl></dbl>	<chr></chr>	<dbl></dbl>	<dbl></dbl>	<dbl></dbl>
Blue Phone 01 ANSOC @ Northwest Marine Drive	49.26973	-123.2572	Blue Phone 62 Rose Garden Parkade Elevator Level 5	49.26945	-123.2566	55.42414
Blue Phone 03 Flagpole Plaza @ Main Mall & Crescent Road	49.26894	-123.2566	Blue Phone 62 Rose Garden Parkade Elevator Level 5	49.26945	-123.2566	56.72429
Blue Phone 04 Wyman Plaza @ Main Mall & Memorial Road	49.26777	-123.2550	Blue Phone 03 Flagpole Plaza @ Main Mall & Crescent Road	49.26894	-123.2566	171.26136
Blue Phone 05 Ponderosa F @ Lower Mall & Pedestrian Path	49.26497	-123.2575	Blue Phone 48 Fraser River Parkade South West Level 1	49.26568	-123.2583	94.76914
Blue Phone 06 Ponderosa A @ West Mall & Agricultural Road	49.26534	-123.2562	Blue Phone 05 Ponderosa F @ Lower Mall & Pedestrian Path	49.26497	-123.2575	103.17813
Blue Phone 07 Hennings @ East Mall & Agricultural Road	49.26697	-123.2518	Blue Phone 41 Thunderbird Park pedestrian pathway near Soccer Centre	49.26753	-123.2527	87.78280

In [16]: write_csv(bluephone_closest_distance, file = "data/Each Bluephone Distance

A grouped_df: 6 × 7

Bluephone_No	origin_Lat	origin_Lon	closest_Bluephone	closest_lat	closest_lon	distance
<int></int>	<dbl></dbl>	<dbl></dbl>	<chr></chr>	<dbl></dbl>	<dbl></dbl>	<dbl></dbl>
1	49.26973	-123.2572	Blue Phone 62 Rose Garden Parkade Elevator Level 5	49.26945	-123.2566	55.42414
3	49.26894	-123.2566	Blue Phone 62 Rose Garden Parkade Elevator Level 5	49.26945	-123.2566	56.72429
4	49.26777	-123.2550	Blue Phone 03 Flagpole Plaza @ Main Mall & Crescent Road	49.26894	-123.2566	171.26136
5	49.26497	-123.2575	Blue Phone 48 Fraser River Parkade South West Level 1	49.26568	-123.2583	94.76914
6	49.26534	-123.2562	Blue Phone 05 Ponderosa F @ Lower Mall & Pedestrian Path	49.26497	-123.2575	103.17813
7	49.26697	-123.2518	Blue Phone 41 Thunderbird Park pedestrian pathway near Soccer Centre	49.26753	-123.2527	87.78280

A grouped_df: 15×7

Bluephone_No	origin_Lat	origin_Lon	closest_Bluephone	closest_lat	closest_lon	distance
<int></int>	<dbl></dbl>	<dbl></dbl>	<chr></chr>	<dbl></dbl>	<dbl></dbl>	<dbl></dbl>
17	49.25758	-123.2467	Blue Phone 16 Old Barn Community Centre @ Main Mall & Thunderbird Blvd	49.25932	-123.2481	220.0795
30	49.25846	-123.2507	Blue Phone 16 Old Barn Community Centre @ Main Mall & Thunderbird Blvd	49.25932	-123.2481	206.8730
77	49.26246	-123.2388	Blue Phone 78 Osoyoos Crescent & Oyama Court	49.26072	-123.2382	198.3806
31	49.26008	-123.2456	Blue Phone 33 Pulp & Paper @ East Mall & Argonomy Road	49.26143	-123.2471	185.6423
4	49.26777	-123.2550	Blue Phone 03 Flagpole Plaza @ Main Mall & Crescent Road	49.26894	-123.2566	171.2614
16	49.25932	-123.2481	Blue Phone 14 MacMillan @ Main Mall & Agronomy Rd	49.26053	-123.2495	168.3631
21	49.26616	-123.2537	Blue Phone 07 Hennings @ East Mall & Agricultural Road	49.26697	-123.2518	164.4280
22	49.26948	-123.2544	Blue Phone 62 Rose Garden Parkade Elevator Level 5	49.26945	-123.2566	156.5045
10	49.26471	-123.2523	Blue Phone 20 Chemistry Physics @ East Mall & University Blvd.	49.26575	-123.2508	155.5971
80	49.25967	-123.2352	Blue Phone 79 Point Grey Apartments	49.25961	-123.2373	149.3701
2	49.26789	-123.2583	Blue Phone 23 Fraser River Parkade @ Memorial Rd at Fraser River Parkade	49.26658	-123.2578	149.3273
20	49.26575	-123.2508	Blue Phone 81 University Blvd Lot Stairs 1	49.26659	-123.2493	148.7244
26	49.26421	-123.2549	Blue Phone 25 St. John's @ Lower Mall & University Blvd.	49.26331	-123.2563	143.3557
78	49.26072	-123.2382	Blue Phone 79 Point Grey Apartments	49.25961	-123.2373	140.7909
79	49.25961	-123.2373	Blue Phone 78 Osoyoos Crescent & Oyama Court	49.26072	-123.2382	140.7909

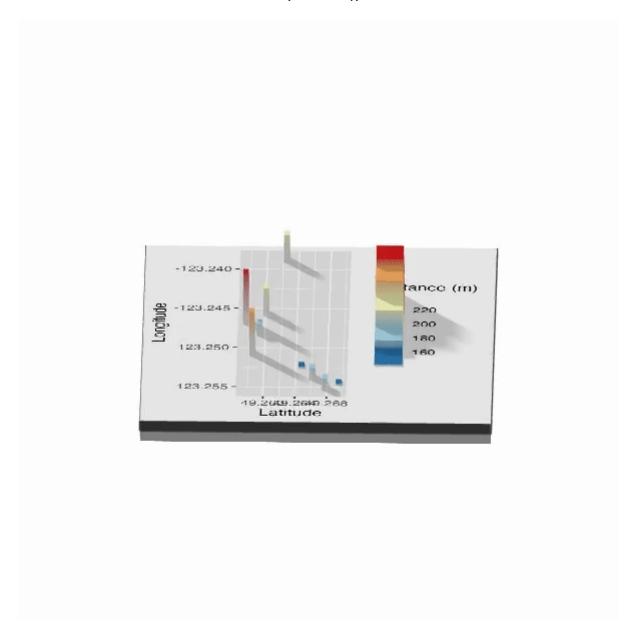
```
In [19]: # calculate the mean of the distance
    distance_mean <- bluephone_closest_distance_renamed |>
        pull(distance) |>
        mean()

cat("The distance between each bluephone and its closet bluephone is", dist

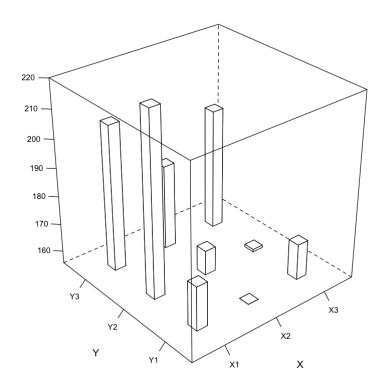
The distance between each bluephone and its closet bluephone is 88.23234
    m.
```

```
In [21]: suppressWarnings(render_movie(filename = "plot.gif"))
```

'/Users/chengxiansheng/Desktop/Jupyter Notebook/VANT 149/VANT149_Group9_Project/plot.gif.mp4'

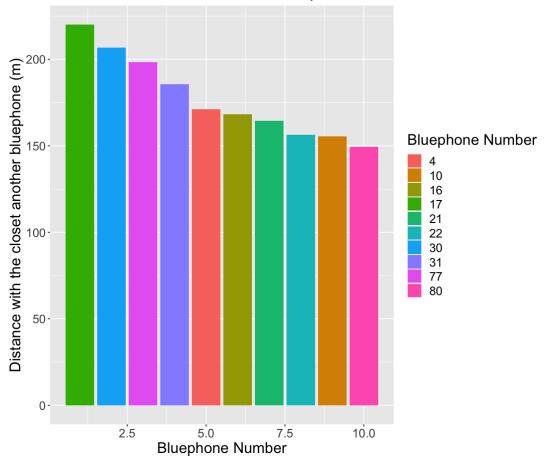


```
In [22]:
         #3d bar plot according to the relative location base on coordinates
         df.distance <- data.frame(matrix(NA, nrow=9, ncol=4))</pre>
         names(df.distance) <- c("x", "y", "z", "z.rank")</pre>
         df.distancex \leftarrow factor(rep(c("X1", "X2", "X3"), times=3), levels=c("X1",
         df.distance$y <- factor(rep( paste0("Y", 1:3), each=3), levels=c("Y1", "Y2"</pre>
         df.distance$z <- pull(arrange(arranged_bluephone_closest_distance_9, Blueph
         df.distance$z.rank <- as.numeric(rank(df.distance$z))</pre>
         p1. <- cloud(z-x+y, data=df.distance, panel.3d.cloud=panel.3dbars,
                      ylab="Y", xlab="X", zlab="Z",
                      xbase=0.2, ybase=0.2, scales=list(arrows=FALSE, col="black", di
                      par.settings = list(axis.line = list(col = "transparent")),
                      \#screen = list(z = 35, x = -35, y=0),
                      alpha.facet = 1.00, border = "transparent",
                      zoom=1.00);
         print(p1.)
```



Warning message in geom_bar(stat = "identity", bins = 10):
"Ignoring unknown parameters: `bins`"

The distance between each bluephone and its closet one



A grouped_df: 1 × 7

Bluephone_origin	origin_Lat	origin_Lon	closest_Bluephone	closest_lat	closest_lon	distance
<chr></chr>	<dbl></dbl>	<dbl></dbl>	<chr></chr>	<dbl></dbl>	<dbl></dbl>	<dbl></dbl>
Blue Phone 17 Rhododendron Wood @ Main Mall & Eagles Drive	49.25758	-123.2467	Blue Phone 16 Old Barn Community Centre @ Main Mall & Thunderbird Blvd	49.25932	-123.2481	220.0795

A tibble: 4 × 4

Formal_Name_and_Room	Street_Address	Latitude	Longitude
<chr></chr>	<chr></chr>	<dbl></dbl>	<dbl></dbl>
Blue Phone 16 Old Barn Community Centre @ Main Mall & Thunderbird Blvd	6308 THUNDERBIRD Blvd Old Barn Community Ctr	49.25932	-123.2481
Blue Phone 17 Rhododendron Wood @ Main Mall & Eagles Drive	Main Mall	49.25758	-123.2467
Blue Phone 30 Totem Park @ West Mall & Thunderbird Blvd	2525 WEST MALL & THUNDERBIRD BIVd	49.25846	-123.2507
Blue Phone 31 Tennis Centre @ Thunderbird & East Mall	6160 THUNDERBIRD BLVD & EAST MALL	49.26008	-123.2456

```
In [26]: #plot the location on the map
         bluephone map max distance <- leaflet(data = bluephone distance max locatio
             addTiles() >
             fitBounds(-123.246,49.257,-123.248,49.26) >
             addMarkers(lng = ~Longitude,
                        lat = ~Latitude,
                        popup = -Street Address,
                        label = ~Formal Name and Room) |>
             addMarkers(data = bluephone_distance_max_location,
                        lng = ~Longitude,
                        lat = ~Latitude,
                        popup = -Street Address,
                        label = ~Formal Name and Room) |>
             addPolylines(data = bluephone_distance_max_location[1:2,], lng = ~Longi
             addPolylines(data = bind rows(bluephone distance max location[2, ],
                                            bluephone distance max location[3, ]),
                          lng = ~Longitude, lat = ~Latitude) |>
             addPolylines(data = bind_rows(bluephone_distance_max location[2, ],
                                           bluephone distance max location[4, ]),
                          lng = ~Longitude, lat = ~Latitude) |>
             addScaleBar()
         #bluephone map max distance
```

```
In [27]: # mapview image save
mapshot(bluephone_map_max_distance, file = "Map Image Save/Longest_Bluephon
```

