

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)

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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	49.26894	-123.25657
Blue Phone 04 Wyman Plaza @ Main Mall & Memorial Road	Main Mall & Memorial Road	49.26777	-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 Bldg	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	49.26471	-123.25227
Blue Phone 11 Earth Sciences Building @ Main Mall & Stores Road	2207 MAIN MALL	49.26253	-123.25111
Blue Phone 12 Earth & Ocean Sciences @ Stores Road at EOS	6339 STORES RD	49.26195	-123.25239
Blue Phone 13 Ritsumeikan @ West Mall at Ritsumeikan	6460 AGRONOMY RD/WEST MALL Ritsumeikan House	49.26008	-123.25207
Blue Phone 14 MacMillan @ Main Mall & Agronomy Rd	2357 MAIN MALL H.R. MacMILLAN Bldg	49.26053	-123.24954
Blue Phone 15 Brock Hall @ East Mall at Memorial Road	1874 EAST MALL BROCK Hall	49.26843	-123.25254
Blue Phone 16 Old Barn Community Centre @ Main Mall & Thunderbird Blvd	6308 THUNDERBIRD Blvd Old Barn Community Ctr	49.25932	-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	-123.25169
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 NITOBÉ 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 Mall & 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 Westbrook 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 Westbrook Mall pathway near Soccer Centre	49.26753	-123.25268
Blue Phone 42 IK Barber 1st Floor Wall Unit	1961 EAST MALL	49.26753	-123.25268
Blue Phone 43 IK Barber 2nd Floor Wall Unit	1961 EAST MALL	49.26753	-123.25268
Blue Phone 44 IK Barber 3rd Floor Wall Unit	1961 EAST MALL	49.26753	-123.25268
Blue Phone 45 IK Barber 4th Floor Wall Unit	1961 EAST MALL	49.26753	-123.25268

Blue Phone 46 Vantage College Agronomy & West Mall	6363 Agronomy Road Vantage College	49.26039	-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

Bluephone_origin	origin_Lat	origin_Lon	closest_Bluephone	closest_lat	closest_lon	distance
Blue Phone 01 ANSOC @ Northwest Marine Drive	49.26973	-123.25721	Blue Phone 62 Rose Garden Parkade Elevator Level 5	49.26945	-123.25658	55.42413500175715
Blue Phone 03 Flagpole Plaza @ Main Mall & Crescent Road	49.26894	-123.25657	Blue Phone 62 Rose Garden Parkade Elevator Level 5	49.26945	-123.25658	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	-123.25657	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	-123.25827	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	74.60411568466983
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

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
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
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
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
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 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 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 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 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
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
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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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	-123.25539	Blue Phone 25 St. John's @ Lower Mall & University Blvd.	49.26331	-123.25635	89.30058336797676
Blue Phone 77 Fairview Crescent & Osoyoos Crescent	49.26246	-123.2388	Blue Phone 78 Osoyoos Crescent & Oyama Court	49.26072	-123.2382	198.38064120158887
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 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	10.032501364767866
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 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	-123.24856	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 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

GitHub 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>