

```

{
  "name": "JSON SIP Array Library with Data Stored in Library",
  "objectType": "sipModel",
  "libraryType": "SIPmath_3_0",
  "dateCreated": "August,6 2021",
  "version": "0",
  "provenance": "DGE SLS",
  "PM_Trials": 1000,
  "U01": {
    "rng": [
      {
        "name": "indexRng",
        "function": "Index",
        "arguments": {"counter": "PM_Index"}
      }
    ]
  },
  "sips": [
    {
      "name": "SIP_2",
      "function": "SIP_Array",
      "ref": {"source": "rng", "name": "indexRng"},
      "arguments": {
        "type": "array",
        "value": [
          1.0000000, 2.0000000, 3.0000000, 0.3527161, 0.0506171, 0.5373222, 0.4650002,
          0.3463613, 0.1142839, 0.7041559, 0.0359736, 0.4535013, 0.7215800, 0.1135326,
          0.7871817, 0.7417535, 0.6434091, 0.6062844, 0.1801498, 0.1591762, 0.7507401,
          0.3857982, 0.8904380, 0.4622843, 0.0510639, 0.8623224, 0.2843574, 0.7256295,
          0.0769410, 0.4187298, 0.8082216, 0.9127633, 0.1023117, 0.4318036, 0.5394499,
          0.8433695, 0.8630063, 0.2355308, 0.6197702, 0.8420871, 0.3142717, 0.9077386,
          0.4628265, 0.2797314, 0.2525122, 0.0573431, 0.3260664, 0.5047490, 0.4739424,
          0.0738422, 0.9263649, 0.2781654, 0.5021977, 0.7654895, 0.3325217, 0.5376140,
          0.3579117, 0.2976657, 0.8263210, 0.3184611, 0.6936836, 0.9850689, 0.6922600,
          0.5718816, 0.4698091, 0.2537018, 0.6429653, 0.4275898, 0.5701667, 0.6744448,
          0.8489212, 0.1626357, 0.5118446, 0.6568669, 0.3169585, 0.7862010, 0.2791117,
          0.8021182, 0.2127761, 0.7273893, 0.8533270, 0.3696341, 0.5699161, 0.9138143,
          0.4338537, 0.2551924, 0.1190144, 0.3705474, 0.9816186, 0.9592642, 0.5686680,
          0.9057552, 0.9751279, 0.4087236, 0.5537400, 0.3411140, 0.4718060, 0.0849670,
          0.5167127, 0.9174312, 0.4428080, 0.8019917, 0.5692240, 0.6730696, 0.1507036,
          0.1851360, 0.3910810, 0.3570457, 0.0201392, 0.5653155, 0.7822594, 0.8048948,
          0.5475934, 0.0322306, 0.2541368, 0.9361333, 0.9719561, 0.6897419, 0.0890637,
          0.4375295, 0.9099171, 0.5325692, 0.6092421, 0.8117724, 0.1648851, 0.1719483,
          0.4694633, 0.4460013, 0.1744645, 0.3920353, 0.3048575, 0.7464428, 0.8472878,
          0.9913602, 0.3181111, 0.3872767, 0.3663955, 0.0682614, 0.6366507, 0.4019986,

```

U01 section refers to a uniform random variable on 0 to 1.

rng stands for random number generator, which in this case is named "indexRng" and is the iteration counter of the client program.

The argument of the "indexRng" is the Monte Carlo iteration counter (PM_Index).

The SIPs section starts here. This example has two.

This SIP is named "SIP_2" and is driven by a SIP array.

The arguments are the values in the SIP.

0.8563213, 0.2897493, 0.4137659, 0.6545449, 0.3418236, 0.0180669, 0.8087106,
0.5288193, 0.5885209, 0.7348558, 0.0195945, 0.3365175, 0.9587046, 0.8409031,
0.2173975, 0.4670698, 0.4507938, 0.7504053, 0.8266319, 0.8955685, 0.2294697,
0.3635482, 0.3954911, 0.7438622, 0.9597713, 0.0953488, 0.2137587, 0.2905536,
0.1268237, 0.9426619, 0.5246662, 0.5963535, 0.2833510, 0.4983405, 0.6478375,
0.0669709, 0.9143176, 0.8266203, 0.8255342, 0.0035557, 0.1953666, 0.1014238,
0.9029440, 0.2699688, 0.8184127, 0.7821422, 0.8091250, 0.7601120, 0.6202295,
0.8354003, 0.2899817, 0.4877820, 0.0715915, 0.7286394, 0.6470836, 0.6439404,
0.5948914, 0.2196272, 0.2872124, 0.8314348, 0.9528210, 0.5055994, 0.3910352,
0.6669190, 0.1144661, 0.5889278, 0.3220043, 0.2962182, 0.1645607, 0.2149116,
0.9217291, 0.1692147, 0.9074340, 0.2284224, 0.2307568, 0.0114413, 0.4345713,
0.2196104, 0.0769940, 0.0109055, 0.0181576, 0.9767980, 0.5761680, 0.2878854,
0.7594370, 0.1147358, 0.0797384, 0.3348971, 0.9354238, 0.0845732, 0.1596449,
0.6361515, 0.7314854, 0.3048594, 0.7666918, 0.7427088, 0.7349540, 0.0312503,
0.6070124, 0.6820436, 0.4733275, 0.0738210, 0.5482394, 0.9173989, 0.5545245,
0.4635413, 0.9412139, 0.2203131, 0.0146589, 0.7921680, 0.9500568, 0.4892735,
0.5620642, 0.2050494, 0.0664325, 0.7597852, 0.1251765, 0.9046976, 0.1558825,
0.3179138, 0.3005538, 0.9347818, 0.2303171, 0.3966228, 0.2066427, 0.7730151,
0.3535861, 0.8589372, 0.6241499, 0.7525687, 0.0975441, 0.0233349, 0.0212703,
0.9545355, 0.9632084, 0.0896478, 0.8659754, 0.3158928, 0.8117357, 0.6123734,
0.3534117, 0.8714938, 0.3454739, 0.8422075, 0.2914355, 0.1579879, 0.4821363,
0.0082434, 0.2903291, 0.3433419, 0.8772120, 0.8685569, 0.6408620, 0.0142812,
0.0296215, 0.2853378, 0.7436524, 0.6759858, 0.0013454, 0.2117538, 0.2114271,
0.0896326, 0.8323580, 0.3707703, 0.1219952, 0.8967177, 0.8288876, 0.2977469,
0.0914099, 0.5014143, 0.6395351, 0.5601568, 0.4280273, 0.2931647, 0.5248283,
0.7452129, 0.8359679, 0.7671224, 0.4837944, 0.9928180, 0.0316282, 0.4018051,
0.7192252, 0.1468283, 0.4359350, 0.5911092, 0.0282261, 0.3293104, 0.8680202,
0.9700164, 0.5028214, 0.2689124, 0.7176133, 0.8578109, 0.7576579, 0.0500992,
0.4194953, 0.8858114, 0.1214767, 0.8822089, 0.5983398, 0.0366302, 0.9425880,
0.0127204, 0.4820355, 0.0524579, 0.1392455, 0.1358114, 0.8225881, 0.7571730,
0.2917023, 0.1289702, 0.3505665, 0.4844938, 0.9869065, 0.1000275, 0.9296576,
0.4723791, 0.2992977, 0.9149962, 0.7086790, 0.8470185, 0.0447932, 0.7786977,
0.0404993, 0.2948954, 0.3428703, 0.0490963, 0.7480741, 0.7163956, 0.6127400,
0.5683794, 0.5857485, 0.0371996, 0.7110880, 0.9134131, 0.0303061, 0.5133739,
0.7893551, 0.6107669, 0.2050694, 0.4309871, 0.9442675, 0.4800276, 0.3035847,
0.7801687, 0.2393192, 0.8451895, 0.4931200, 0.6824703, 0.0727872, 0.4529767,
0.6492166, 0.3620756, 0.1937964, 0.3363423, 0.0224212, 0.7206056, 0.0360378,
0.8944555, 0.9425220, 0.7216657, 0.5481421, 0.0794629, 0.3990385, 0.7432493,
0.7398075, 0.5909401, 0.5389102, 0.6022973, 0.9666943, 0.1252553, 0.1272560,
0.0454034, 0.9533829, 0.4820061, 0.9870508, 0.7249449, 0.8642774, 0.6627025,
0.3888750, 0.6017666, 0.9274239, 0.9245867, 0.5142437, 0.4791062, 0.2037268,
0.1215187, 0.9078368, 0.7418474, 0.1640220, 0.4125519, 0.8001901, 0.5180473,
0.9307388, 0.2737834, 0.5394993, 0.3428545, 0.6487891, 0.9923669, 0.0568643,
0.6267429, 0.3784224, 0.0586020, 0.7151166, 0.7321083, 0.3823152, 0.4472392,
0.8216868, 0.2728154, 0.3823495, 0.5445697, 0.7560716, 0.6555442, 0.8446193,

0.1064663, 0.5017806, 0.6120092, 0.0099714, 0.9931907, 0.5350098, 0.1349434,
0.1427519, 0.1249683, 0.4803334, 0.9902917, 0.3164300, 0.5673904, 0.5799763,
0.2805334, 0.7280558, 0.2181637, 0.9578995, 0.7904522, 0.9396224, 0.9741285,
0.5823246, 0.5960029, 0.8963713, 0.0662137, 0.0644345, 0.6584909, 0.7979415,
0.8523510, 0.4474989, 0.7999715, 0.3228539, 0.9250446, 0.6784944, 0.6794262,
0.7028807, 0.1230594, 0.9363131, 0.0670937, 0.5382366, 0.2137764, 0.9853820,
0.8860862, 0.6630638, 0.7699699, 0.6382518, 0.3735505, 0.7431306, 0.8446555,
0.5894234, 0.5337915, 0.3877028, 0.1502333, 0.1135581, 0.3694373, 0.4074478,
0.2776610, 0.3493507, 0.1029091, 0.4047840, 0.2301559, 0.5120811, 0.3405404,
0.4422761, 0.1828486, 0.7460484, 0.5142408, 0.2812124, 0.7558130, 0.6715077,
0.6812384, 0.4206361, 0.6801209, 0.5276261, 0.5129529, 0.5800890, 0.5140410,
0.5452183, 0.5199119, 0.6239680, 0.1792245, 0.6157098, 0.7437311, 0.7803206,
0.1358225, 0.3766814, 0.3991994, 0.5458437, 0.0544292, 0.6358613, 0.9159990,
0.8879029, 0.8955911, 0.8589783, 0.0784589, 0.8023188, 0.3543952, 0.1265867,
0.9201054, 0.1818326, 0.2695319, 0.1210438, 0.7899985, 0.3310628, 0.9009834,
0.4696808, 0.8335776, 0.4945294, 0.9647389, 0.1343459, 0.3834937, 0.3570657,
0.5020580, 0.6588318, 0.6905922, 0.9273941, 0.6853333, 0.6236791, 0.3952957,
0.8428293, 0.0177796, 0.6096722, 0.2060121, 0.7413893, 0.7718525, 0.4170547,
0.4091112, 0.3150215, 0.5304260, 0.1026142, 0.3389434, 0.0966098, 0.7927292,
0.4621879, 0.5866655, 0.9124364, 0.2114939, 0.3593370, 0.1194074, 0.7968509,
0.2191503, 0.5608934, 0.0083386, 0.6476675, 0.3509569, 0.2553402, 0.2250165,
0.5111711, 0.0256507, 0.9651020, 0.4726395, 0.2178574, 0.6087739, 0.9017601,
0.5254584, 0.1724722, 0.6466002, 0.8990642, 0.0965383, 0.2068194, 0.3601990,
0.5866739, 0.1021485, 0.6070949, 0.4537781, 0.7481278, 0.7519895, 0.4762782,
0.6104588, 0.7174886, 0.9385353, 0.5871266, 0.9634927, 0.7192033, 0.3182873,
0.6685828, 0.3519060, 0.2531666, 0.3648348, 0.8258383, 0.2947610, 0.6786632,
0.5627285, 0.8754016, 0.9503988, 0.9891615, 0.0970446, 0.5110256, 0.2127808,
0.8171937, 0.9600828, 0.5089153, 0.5370525, 0.8222487, 0.7572435, 0.5737559,
0.6971517, 0.3308533, 0.7548445, 0.9159736, 0.3877450, 0.2497052, 0.8631902,
0.1440965, 0.4657011, 0.3101797, 0.6172476, 0.7910802, 0.1849378, 0.7490184,
0.4450102, 0.6516984, 0.5728201, 0.1495205, 0.7167932, 0.5969624, 0.8366646,
0.6619244, 0.4758322, 0.0801552, 0.5867229, 0.2357600, 0.6845892, 0.5852240,
0.0119275, 0.9538300, 0.1027699, 0.4196316, 0.0103812, 0.9604704, 0.7486720,
0.9911503, 0.3775349, 0.0030198, 0.2501587, 0.2947530, 0.4626347, 0.8302517,
0.3191174, 0.0184800, 0.7727527, 0.0561498, 0.4907589, 0.2265438, 0.6619353,
0.3238680, 0.1361989, 0.2891708, 0.1635169, 0.4866584, 0.0451657, 0.7462026,
0.0462591, 0.7637167, 0.1920902, 0.8754348, 0.6628382, 0.9510274, 0.5526854,
0.1857994, 0.0436579, 0.7891302, 0.3054336, 0.5662997, 0.9605589, 0.9021806,
0.9245116, 0.9934851, 0.3688100, 0.2593731, 0.7227959, 0.0188649, 0.4602727,
0.0519891, 0.5052785, 0.3914286, 0.1044877, 0.1256305, 0.3615409, 0.2411242,
0.6349588, 0.7290749, 0.5534845, 0.3153490, 0.7838265, 0.9548459, 0.0889522,
0.1051128, 0.0938867, 0.9260979, 0.5767477, 0.2027730, 0.2024336, 0.0371513,
0.9473899, 0.6974848, 0.1605398, 0.7492611, 0.0676759, 0.2909117, 0.2639019,
0.0327840, 0.2829518, 0.6632054, 0.8194168, 0.6232893, 0.8761665, 0.7145972,
0.4035998, 0.7112856, 0.8700669, 0.5775777, 0.8188523, 0.1704320, 0.3179831,

0.1647535, 0.8613379, 0.7038599, 0.7171005, 0.8074949, 0.9003283, 0.4386880,
0.9411355, 0.0126026, 0.7227135, 0.8269538, 0.6012291, 0.3486195, 0.0387554,
0.4648939, 0.5279038, 0.9012676, 0.8384650, 0.4789110, 0.1313159, 0.3552202,
0.7448736, 0.3744230, 0.1677225, 0.0093126, 0.3596314, 0.6308057, 0.3994277,
0.7830215, 0.4184149, 0.0318851, 0.6598861, 0.8349136, 0.6662413, 0.4395576,
0.3299432, 0.5144475, 0.8913044, 0.1367752, 0.6526842, 0.6613560, 0.3594571,
0.9235919, 0.3539188, 0.6598339, 0.6010180, 0.3888834, 0.3058870, 0.1528674,
0.2099847, 0.1382326, 0.5222769, 0.4685394, 0.6805324, 0.2045242, 0.7146156,
0.7090595, 0.5851058, 0.4037477, 0.9607720, 0.7710318, 0.2217018, 0.7767751,
0.5378623, 0.4545944, 0.8309344, 0.1249553, 0.4177266, 0.3913714, 0.4039630,
0.8416726, 0.7586206, 0.1212545, 0.9175148, 0.9679257, 0.1304917, 0.8812922,
0.6518782, 0.5552065, 0.9546101, 0.6244609, 0.3388572, 0.9538593, 0.4535998,
0.0811360, 0.7000326, 0.4293206, 0.0196299, 0.8188178, 0.9855392, 0.9981584,
0.4794467, 0.5605902, 0.0209618, 0.6353761, 0.9718819, 0.7664984, 0.4097329,
0.0030141, 0.3710503, 0.0861686, 0.6404517, 0.4371942, 0.0109407, 0.0297923,
0.5672849, 0.2109323, 0.7331864, 0.5926389, 0.4278380, 0.3872152, 0.5881602,
0.2440515, 0.4741192, 0.0524926, 0.9398668, 0.5809826, 0.1482236, 0.7102359,
0.7349737, 0.6629090, 0.0661631, 0.1290151, 0.3323689, 0.0844836, 0.9360096,
0.7615985, 0.9365578, 0.7527188, 0.2882823, 0.9762757, 0.3908339, 0.0464725,
0.0799161, 0.4559665, 0.8974166, 0.7666247, 0.6886243, 0.0930262, 0.7664722,
0.0799467, 0.1813229, 0.0394958, 0.3080737, 0.4923743, 0.4393939, 0.0145797,
0.7982469, 0.7116477, 0.4186486, 0.4939621, 0.0686495, 0.3153656, 0.3766175,
0.8983652, 0.0641369, 0.2057761, 0.4186459, 0.8512223, 0.2599181, 0.9306743,
0.4743126, 0.7809002, 0.0868217, 0.2211522, 0.7071931, 0.4317109, 0.3887042,
0.8505555, 0.7372195, 0.7354471, 0.5277083, 0.6297064, 0.4670590, 0.1051717,
0.3116403, 0.9152689, 0.8993010, 0.7507276, 0.0399840, 0.3500590, 0.2941572,
0.3265445, 0.7901501, 0.8342139, 0.3245689, 0.3191563, 0.8073928, 0.9771811,
0.0429168, 0.0571038, 0.3297416, 0.5822832, 0.4725035, 0.3013307, 0.0660627,
0.8436327, 0.5151391, 0.7946962, 0.5363054, 0.9048916, 0.0283258, 0.2246235,
0.0378260, 0.0239672, 0.9973073, 0.0580599, 0.9235437, 0.8067476, 0.8970132,
0.6531861, 0.9103053, 0.3362663, 0.1839204, 0.5155865, 0.3011926, 0.2131389,
0.2633413, 0.0983776, 0.5129104, 0.8700344, 0.6536200, 0.0786298, 0.5991441,
0.3869764, 0.3064608, 0.6379015, 0.4727577, 0.6287194, 0.4284831

]

}

}

]

}