#Sycs-4073

|  |
| --- |
| def add(A, B, m, n): |
|  |  |
|  | size = max(m, n); |
|  | sum = [0 for i in range(size)] |
|  |  |
|  |  |
|  |  |
|  | for i in range(0, m, 1): |
|  | sum[i] = A[i] |
|  |  |
|  |  |
|  | for i in range(n): |
|  | sum[i] += B[i] |
|  |  |
|  | return sum |
|  |  |
|  |  |
|  | def printPoly(poly, n): |
|  | for i in range(n): |
|  | print(poly[i], end = "") |
|  | if (i != 0): |
|  | print("x^", i, end = "") |
|  | if (i != n - 1): |
|  | print(" + ", end = "") |
|  |  |
|  |  |
|  | if \_\_name\_\_ == '\_\_main\_\_': |
|  |  |
|  |  |
|  | A = [5, 0, 10, 6] |
|  |  |
|  |  |
|  | B = [1, 2, 4] |
|  | m = len(A) |
|  | n = len(B) |
|  |  |
|  | print("First polynomial is") |
|  | printPoly(A, m) |
|  | print("\n", end = "") |
|  | print("Second polynomial is") |
|  | printPoly(B, n) |
|  | print("\n", end = "") |
|  | sum = add(A, B, m, n) |
|  | size = max(m, n) |
|  |  |
|  | print("sum polynomial is") |
|  | printPoly(sum, size) |
|  |  |