

Program to find sum of squares of first n natural numbers.

```

#include <iostream>
using namespace std;
int main()
{
    int n;
    cin >> n;
    long long sum = 0;
    for (int i = 1; i <= n; i++)
    {
        sum += i*i;
    }
    cout << sum << endl;
    return 0;
}

```

Output: 10

Input: 4

Output: 30

Input: 5

Output: 55

Input: 6

Output: 90

Input: 7

Output: 140

Input: 8

Output: 204

Input: 9

Output: 285

Input: 10

Output: 385

Input: 11

Output: 506

Input: 12

Output: 650

Input: 13

Output: 819

Input: 14

Output: 1016

Input: 15

Output: 1240

Input: 16

Output: 1496

Input: 17

Output: 1785

Input: 18

Output: 2106

Input: 19

Output: 2469

Input: 20

Output: 2884

Input: 21

Output: 3351

Input: 22

Output: 3872

Input: 23

Output: 4449

Input: 24

Output: 5084

Input: 25

Output: 5775

Input: 26

Output: 6524

Input: 27

Output: 7333

Input: 28

Output: 8204

Input: 29

Output: 9139

Input: 30

Output: 10140

Input: 31

Output: 11209

Input: 32

Output: 12348

Input: 33

Output: 13559

Input: 34

Output: 14844

Input: 35

Output: 16205

Input: 36

Output: 17644

Input: 37

Output: 19163

Input: 38

Output: 20764

Input: 39

Output: 22449

Input: 40

Output: 24220

Input: 41

Output: 26079

Input: 42

Output: 28028

Input: 43

Output: 29969

Input: 44

Output: 31904

Input: 45

Output: 33935

Input: 46

Output: 35964

Input: 47

Output: 38083

Input: 48

Output: 40194

Input: 49

Output: 42299

Input: 50

Output: 44390

Input: 51

Output: 46479

Input: 52

Output: 48568

Input: 53

Output: 50659

Input: 54

Output: 52754

Input: 55

Output: 54845

Input: 56

Output: 56932

Input: 57

Output: 59017

Input: 58

Output: 61102

Input: 59

Output: 63189

Input: 60

Output: 65270

Input: 61

Output: 67347

Input: 62

Output: 69422

Input: 63

Output: 71495

Input: 64

Output: 73568

Input: 65

Output: 75643

Input: 66

Output: 77712

Input: 67

Output: 79779

Input: 68

Output: 81846

Input: 69

Output: 83915

Input: 70

Output: 85988

Input: 71

Output: 88067

Input: 72

Output: 90154

Input: 73

Output: 92249

Input: 74

Output: 94342

Input: 75

Output: 96435

Input: 76

Output: 98530

Input: 77

Output: 100629

Input: 78

Output: 102734

Input: 79

Output: 104837

Input: 80

Output: 106940

Input: 81

Output: 109045

Input: 82

Output: 111154

Input: 83

Output: 113269

Input: 84

Output: 115382

Input: 85

Output: 117497

Input: 86

Output: 119618

Input: 87

Output: 121747

Input: 88

Output: 123886

Input: 89

Output: 126037

Input: 90

Output: 128192

Input: 91

Output: 130355

Input: 92

Output: 132528

Input: 93

Output: 134703

Input: 94

Output: 136888

Input: 95

Output: 139085

Input: 96

Output: 141296

Input: 97

Output: 143513

Input: 98

Output: 145748

Input: 99

Output: 147995

Input: 100

Output: 150256

Input: 101

Output: 152523

Input: 102

Output: 154798

Input: 103

Output: 157081

Input: 104

Output: 159374

Input: 105

Output: 161679

Input: 106

Output: 163996

Input: 107

Output: 166327

Input: 108

Output: 168674

Input: 109

Output: 171039

Input: 110

Output: 173424

Input: 111

Output: 175829

Input: 112

Output: 178256

Input: 113

Output: 180707

Input: 114

Output: 183184

Input: 115

Output: 185689

Input: 116

Output: 188224

Input: 117

Output: 190791

Input: 118

Output: 193382

Input: 119

Output: 195999

Input: 120

Output: 198644

Input: 121

Output: 201319

Input: 122

Output: 204026

Input: 123

Output: 206767

Input: 124

Output: 209544

Input: 125

Output: 212359

Input: 126

Output: 215214

Input: 127

Output: 218109

Input: 128

Output: 221046

Input: 129

Output: 224027

Input: 130

Output: 227054

Input: 131

Output: 230129

Input: 132

Output: 233254

Input: 133

Output: 236429

Input: 134

Output: 239656

Input: 135

Output: 242937

Input: 136

Output: 246274

Input: 137

Output: 249679

Input: 138

Output: 253154

Input: 139

Output: 256699

Input: 140

Output: 260326

Input: 141

Output: 263947

Input: 142

Output: 267674

Input: 143

Output: 271429

Input: 144

Output: 275214

Input: 145

Output: 279039

Input: 146

Output: 282906

Input: 147

Output: 286827

Input: 148

Output: 290804

Input: 149

Output: 294849

Input: 150

Output: 298974

Input: 151

Output: 303189

Input: 152

Output: 307496

Input: 153

Output: 311819

Input: 154

Output: 316168

Input: 155

Output: 320555

Input: 156

Output: 324992

Input: 157

Output: 329489

Input: 158

Output: 334048

Input: 159

Output: 338679

Input: 160

Output: 343394

Input: 161

Output: 348196

Input: 162

Output: 353007

Input: 163

Output: 357848

Input: 164

Output: 362731

Input: 165

Output: 367678

Input: 166

Output: 372699

Input: 167

Output: 377796

Input: 168

Output: 382981

Input: 169

Output: 388256

Input: 170

Output: 393623

Input: 171

Output: 399094

Input: 172

Output: 404679

Input: 173

Output: 410380

Input: 174

Output: 416129

Input: 175

Output: 421948

Input: 176

Output: 427859

Input: 177

Output: 433884

Input: 178

Output: 439935

Input: 179

Output: 446024

Input: 180

Output: 452174

Input: 181

Output: 458397

Input: 182

Output: 464696

Input: 183

Output: 471083

Input: 184

Output: 477569

Input: 185

Output: 484158

Input: 186

Output: 490874

Input: 187

Output: 497739

Input: 188

Output: 504766

Input: 189

Output: 511877

Input: 190

Output: 519084

Input: 191

Output: 526409

Input: 192

Output: 533874

Input: 193

Output: 541491

Input: 194

Output: 549272

Input: 195

Output: 557239

Input: 196

Output: 565404

Input: 197

Output: 573799

Input: 198

Output: 582446

Input: 199

Output: 591377

Input: 200

Output: 600624

Input: 201

Output: 610219

Input: 202

Output: 620104

Input: 203

Output: 630311

Input: 204

Output: 640882

Input: 205

Output: 651859

Input: 206

Output: 663214

Input: 207

Output: 674999

Input: 208

Output: 687206

Input: 209

Output: 699877

Input: 210

Output: 713054

Input: 211

Output: 726719

Input: 212

Output: 740854

Input: 213

Output: 755501

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Output: 770692

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Output: 786479

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Output: 802924

Input: 217

Output: 819999

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Output: 837776

Input: 219

Output: 856329

Input: 220

Output: 875770

Input: 221

Output: 896151

Input: 222

Output: 917534

Input: 223

Output: 939991

Input: 224

Output: 963604

Input: 225

Output: 988455

Input: 226

Output: 1014658

Input: 227

Output: 1042255

Input: 228

Output: 1071339

Input: 229

Output: 1101934

Input: 230

Output: 1134193

Input: 231

Output: 1168209

Input: 232

Output: 1204156

Input: 233

Output: 1242159

Input: 234

Output: 1282334

Input: 235

Output: 1324835

Input: 236

Output: 1369846

Input: 237

Output: 1417591

Input: 238

Output: 1468254

Input: 239

Output: 1522059

Input: 240

Output: 1579230

Input: 241

Output: 1639931

Input: 242

Output: 1704456

Input: 243

Output: 1773139

Input: 244

Output: 1846334

Input: 245

Output: 1924445

Input: 246

Output: 2007846

Input: 247

Output: 2096951

Input: 248

Output: 2192134

Input: 249

Output: 2294839

Input: 250

Output: 2405650

Input: 251

Output: 2525131

Input: 252

Output: 2653916

Input: 253

Output: 2792709

Input: 254

Output: 2942254

Input: 255

Output: 3103445

Input: 256

Output: 3277176

Input: 257

Output: 3464401

Input: 258

Output: 3666254

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Output: 3883939

Input: 260

Output: 4118750

Input: 261

Output: 4372151

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Output: 4645766

Input: 263

Output: 4941369

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Output: 5260904

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Output: 6384401

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Output: 6821804

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Output: 7295109

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Output: 7808250

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Output: 8365301

Input: 272

Output: 8970606

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Output: 9629709

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Output: 11133025

Input: 276

Output: 11990056

Input: 277

Output: 12927511

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Output: 13953654

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Output: 15067959

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Output: 16271300

Input: 281

Output: 17565951

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Output: 18954584

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Output: 20441273

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Output: 22030500

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Output: 23727349

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Output: 27466759

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Output: 29522008

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Output: 31710457

Input: 290

Output: 34040000

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Output: 36520041

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Output: 39160584

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Output: 44966600

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Output: 82907001

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Output: 88803040

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Output: 95150029

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Output: 109349073

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Output: 117300036

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Output: 125992064

Input: 310

Output: 135484272

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Output: 372680688

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Output: 513270448

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Output: 556000032

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Output: 602290880

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Output: 652360000

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Output: 1861750000

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Output: 2022500000

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Output: 2197500000

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Output: 2387800000

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Output: 2593600000

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Output: 375740000000

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Output: 409750000000

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Output: 447490000000

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Output: 489110000000

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Output: 534770000000

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Output: 639050000000

Input: 416

Output: 698200000000

Input: 417

Output: 762450000000

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Output: 832050000000

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Output: 1390400000000

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Output: 1513300000000

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Output: 1646500000000

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