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(\*\*\* Wolfram Notebook File \*\*\*)

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NotebookFileLineBreakTest

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NotebookDataPosition[ 157, 7]

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NotebookOptionsPosition[ 309308, 6183]

NotebookOutlinePosition[ 309650, 6198]

CellTagsIndexPosition[ 309607, 6195]

WindowFrame->Normal

ContainsDynamic->False\*)

(\* Beginning of Notebook Content \*)

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RowBox[{"(\*",

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" ", "Spin", " ",

RowBox[{"Matrices", " ", " ", "\*\*\*", "\*\*\*", "\*\*\*", "\*\*\*", "\*\*\*", "\*\*\*", "\*\*\*"}]]],

"\*\*\*\*\*")}], "\[IndentingNewLine]",

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RowBox[{

RowBox[{

RowBox[{"\[Sigma]", "[", "0", "]"}, " ", "=", " ",

RowBox[{"{",

RowBox[{

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RowBox[{"{",

RowBox[{"0", " ", "1"}], "}"}, "}"}, " ;"},

"\[IndentingNewLine]",

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RowBox[{

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RowBox[{"{",

RowBox[{

RowBox[{"{",

RowBox[{"0", " ", "1"}], "}"}, " ", " ",

RowBox[{"{",

RowBox[{"1", " ", "0"}], "}"}, "}"}, " ;"},

"\[IndentingNewLine]",

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RowBox[{

RowBox[{"\[Sigma]", "[", "2", "]"}, " ", "=", " ",

RowBox[{"{",

RowBox[{

RowBox[{"{",

RowBox[{"0", " ", " ",

RowBox[{"-", "I"}]]}, "}"}, " ", " ",

RowBox[{"{",

RowBox[{"I", " ", "0"}], "}"}, "}"}, " ;"},

"\[IndentingNewLine]",

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RowBox[{
  RowBox[{
    RowBox[{"\[Sigma]", "[", "3", "]"}, " ", "=", " ",
    RowBox[{"{",
      RowBox[{"{",
        RowBox[{"{",
          RowBox[{"1", ",", "0"}], "}"}, ",", " ",
          RowBox[{"{",
            RowBox[{"0", ",", "1"}]}], "}"}, "}"}, "}"}, "}"},
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CellChangeTimes->{{3.591448803547988*^9, 3.591448847192484*^9}, {
3.591449173142127*^9, 3.591449180916572*^9}, {3.5914493520583606*^9,
3.5914493586707387*^9}, {3.591449891292203*^9, 3.5914498933433204*^9}},

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Cell[BoxData[
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  RowBox[{"("},
  RowBox[{"{",
    RowBox[{"{",
      RowBox[{"{",
        RowBox[{"***", " ", "number", " ", "of", " ", "spins", " ",
        RowBox[{"(", "n", ")"}], " ",
        RowBox[{"and", " ", "the", " ", "number", " ", "of", " ", "operators"}],
        RowBox[{"we", " ", "are", " ", "allowed", " ", "to", " ", "insert"}], " ",
        RowBox[{"(", "k", ")"}], " ", "****", "****", "****", "****", "****"}],
      "*****")"}, "\[IndentingNewLine]",
    RowBox[{"n", " ", "=", " ", "5"}], " ;"}, "\[IndentingNewLine]",
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3.591450005161716*^9}, {3.5914534342598495*^9, 3.5914534392531347*^9}, {
3.59145419900659*^9, 3.591454199372611*^9}, {3.59145467455379*^9,
3.5914546759978724*^9}, {3.59146012292423*^9, 3.59146012292423*^9}, {
3.591485422360979*^9, 3.5914854234770427*^9}, {3.5950319135900774*^9,
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RowBox[{
  RowBox[{"("},
  RowBox[{"{",
    RowBox[{"{",
      RowBox[{"{",
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        RowBox[{"get", " ", "****", "****"}], "*****")"}, "\[IndentingNewLine]",
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        RowBox[{"n_", " ", "k_"}], "]"}, " ", ":", "=", " ",
        RowBox[{"Sum", "[",
          RowBox[{"{",
            RowBox[{"{",
              RowBox[{"Binomial", "[",
                RowBox[{"n", " ", "j"}], "]"}, " ",
                RowBox[{"3", " ^", "j"}]}], "}"}, "}"},
          RowBox[{"{",
            RowBox[{"j", " ", "0", " ", "k"}], "}"}, "}"},
        "]"}}], "Input",

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CellChangeTimes->{{3.5914534422043037`\*^9, 3.5914534533439407`\*^9}},

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Cell[BoxData[
RowBox[{
RowBox[{{"("},
RowBox[{
RowBox[{
RowBox[{
RowBox[{"***", "***"}], " ", " ", "Now"}], " ", " ", " ",
RowBox[{
"define", " ", "the", " ", "spin", " ", "matrices", " ", "acting", " ",
"at", " ", "each", " ", "site"}], " ", " ", " ",
RowBox[{"given", " ", "by", " ",
RowBox[{"s", "[",
RowBox[{"i", " ", "a"}], " ]"}]}]}]}], " ", "*****")}],
"\[IndentingNewLine]",
RowBox[{
RowBox[{"For", "["},
RowBox[{
RowBox[{"i", " ", "=", " ", "1"}], " ", " ", " ",
RowBox[{"i", " ", "\[LessEqual]", " ", "n"}], " ", " ", " ",
RowBox[{"i", "++"}], " ", " ", " ",
RowBox[{"For", "["},
RowBox[{
RowBox[{"a", " ", "=", " ", "1"}], " ", " ", " ",
RowBox[{"a", " ", "\[LessEqual]", " ", "3"}], " ", " ", " ",
RowBox[{"a", "++"}], " ", " ", " ",
RowBox[{
RowBox[{"list", " ", "=", " ",
RowBox[{"Table", "["},
RowBox[{
RowBox[{"\[Sigma]", "[", "0", " ]"}], " ", " ", " ",
RowBox[{"{", "n", " }"}]}]}], " ]"}]}], ";", " ", " ",
RowBox[{
RowBox[{"list", "["},
RowBox[{"[", "i", " ]"}], " ]"}], " ", " ", "=", " ", " ",
RowBox[{"\[Sigma]", "[", "a", " ]"}]}]}], ";", " ", " ",
RowBox[{
RowBox[{"s", "[",
RowBox[{"i", " ", "a"}], " ]"}], " ", " ", "=", " ", " ",
RowBox[{"KroneckerProduct", "@@", "list"}]}]}]}], " ", " ]"}]}],
"]"}], "\[IndentingNewLine]",
RowBox[{
RowBox[{"idn", " ", "=", " ",
RowBox[{"KroneckerProduct", "@@",
RowBox[{"Table", "["},
RowBox[{
RowBox[{"\[Sigma]", "[", "0", " ]"}], " ", " ", " ",
RowBox[{"{", "n", " }"}]}]}]}], " ]"}], "\[IndentingNewLine]",
RowBox[{
RowBox[{"s", "[",
RowBox[{"x_", " ", " ", "0"}], " ]"}], " ", " ", ":", " ", " ", "idn"}], ";"}],
"\[IndentingNewLine"]]}]}], "Input",
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3.591449539940107`*^9, 3.5914495400551133`*^9}, {3.5914495850286856`*^9,
3.591449591537058`*^9}, {3.591449622759844`*^9, 3.5914496408008757`*^9}, {
3.5914511315761433`*^9, 3.591451163393963`*^9}},
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```
Cell[BoxData[
RowBox[{{"("},
RowBox[{
RowBox[{
RowBox[{"***", "***", "***", "***", " ", "Now"}], " ", "construct", " ",
"all", " ", "possible", " ", "products", " ", "of", " ", "up", " ", "to",
```

```

" ", "k", " ",
RowBox[{"insertions", ".", " ", "We"}], " ", "use", "\[IndentingNewLine]",
"a", " ", "slightly", " ", "inefficient", " ", "algorithm"}], ",", " ",
RowBox[{"but", " ", "this", " ", "is", " ", "done", " ", "only", " ", "once"}]],
"*)"}]], "Input",
CellChangeTimes->{{3.5914499289883595`*^9, 3.591449972218832*^9}, {
3.591450857513468*^9, 3.5914508742774267`*^9}},

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Cell[BoxData[
RowBox[{"Clear", "[", "a", "]" }], "Input",
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Cell[BoxData[
RowBox[{"
RowBox[{"
RowBox[{"makeproduct", "[", " ",
RowBox[{"curcount_", ",", " ", "pos_", ",", " ", "curop_"}], "]" }], " ",
":=", " ",
RowBox[{"Module", "[",
RowBox[{"
RowBox[{"{"", "a", "}" }], ",", " ",
RowBox[{"
RowBox[{"If", "[",
RowBox[{"
RowBox[{"
RowBox[{"(",
RowBox[{"curcount", " ", "\[Equal]", " ", "0"}], ")"}], " ", "&&",
" ",
RowBox[{"(",
RowBox[{"pos", " ", "\[Equal]", " ", "1"}], ")"}]]], ",", " ",
RowBox[{"(*", "Initialize", "*)" }], "\[IndentingNewLine]",
RowBox[{"
RowBox[{"opcount", " ", "=", " ", "0"}], ";", "\[IndentingNewLine]",

RowBox[{"listops", " ", "=", " ",
RowBox[{"{"", "}" }], ";"}]]], " ", "]" }], ";",
"\[IndentingNewLine]",
RowBox[{"If", "[",
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RowBox[{"
RowBox[{"(",
RowBox[{"curcount", " ", "\[Equal]", " ", "k"}], ")"}], " ", "||",
" ",
RowBox[{"(",
RowBox[{"pos", " ", ">", " ", "n"}], ")"}]]], ",", " ",
"\[IndentingNewLine]",
RowBox[{"
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RowBox[{"(*",
RowBox[{"
Comment", " ", "this", " ", "line", " ", "to", " ", "stop", " ",
the", " ", "printouts"}], " ", "*)" }], "\[IndentingNewLine]",
RowBox[{"opcount", "++"}], ";", " ",
RowBox[{"listops", " ", "=", " ",
RowBox[{"Append", "[",
RowBox[{"listops", " ", " ", "curop"}], "]" }]]}], " ",
RowBox[{"(*",
RowBox[{"Else", " ", "continue"}], "*)" }],
RowBox[{"
RowBox[{"makeproduct", "[", " ",
RowBox[{"curcount", " ", " ",
RowBox[{"pos", " ", "+", "1"}], " ", "curop"}], "]" }], ";",
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```

```

RowBox[{"For", "[",
  RowBox[{
    RowBox[{"a", "=", "1"}], ",", ",", " ",
    RowBox[{"a", " ", "\[LessEqual]", " ", "3"}], ",", ",", " ",
    RowBox[{"a", "++"}], ",", ",", " ", "\[IndentingNewLine]",
    RowBox[{"("},
      RowBox[{
        RowBox[{"Not", " ", "the", " ",
          RowBox[{"identity", ".", " ", "Multiply"}], " ", "the", " ",
            "s"}], ",", ",", " ",
          RowBox[{"and", " ", "pass", " ", "it", " ", "ahead"}]}], " ",
        *)"}], "\[IndentingNewLine]",
      RowBox[{"makeproduct", "[", " ",
        RowBox[{
          RowBox[{"curcount", "+", "1"}], ",", ",", " ",
          RowBox[{"pos", "+", "1"}], ",", ",", " ",
          RowBox[{"s", "[",
            RowBox[{"pos", " ", "a"}], "]"}, " ", "curoop"}]}], "]"}}],
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3.5914512085805473`*^9, 3.591451227228614`*^9}, {3.591451365539525`*^9,
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3.5914525080308723`*^9}, {3.5914526094326715`*^9, 3.591452617372126`*^9}, {
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Cell[CellGroupData[{
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```

Cell[BoxData[{
  RowBox[{"Print", "[",
    RowBox[{"\["\<The counter below must reach \>\["", " ", " ",
      RowBox[{"constraintcount", "[",
        RowBox[{"n", " ", "k"}], "]"}}], " "}, "\[IndentingNewLine]",
    RowBox[{"Print", "[", "\["\<*****\>\["",
      " ]"}], "\[IndentingNewLine]",
      RowBox[{"makeproduct", "[",
        RowBox[{"0", " ", "1", " ", "idn"}], "]"}, "\[IndentingNewLine]",
        RowBox[{"Print", "[", "\["\<*****\>\["", " ]"}], "Input",
        CellChangeTimes->{{3.5914547794277887`*^9, 3.591454795594713`*^9}, {
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3.5950379910373273`*^9}}],

```

```
Cell[CellGroupData[{
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Cell[BoxData[
  InterpretationBox[
    RowBox[{"\["\<\["The counter below must reach \["\>", "\[InvisibleSpace]",
      "16"}],
      SequenceForm["The counter below must reach ", 16],
      Editable->False]], "Print",
    CellChangeTimes->{
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3.5950368919104605`*^9, {3.595037958754481`*^9, 3.595037992397405`*^9}}],

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  3.5950368919104605`^9, {3.595037958754481`^9, 3.595037992407406`^9}}],

Cell[BoxData["0"], "Print",
CellChangeTimes->{
  3.5914782620964355`^9, 3.591485426908239`^9, 3.595032022490306`^9,
  3.5950368919104605`^9, {3.595037958754481`^9, 3.5950379924394073`^9}}],

Cell[BoxData["1"], "Print",
CellChangeTimes->{
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Cell[BoxData["3"], "Print",
CellChangeTimes->{
  3.5914782620964355`^9, 3.591485426908239`^9, 3.595032022490306`^9,
  3.5950368919104605`^9, {3.595037958754481`^9, 3.5950379925034113`^9}}],

Cell[BoxData["4"], "Print",
CellChangeTimes->{
  3.5914782620964355`^9, 3.591485426908239`^9, 3.595032022490306`^9,
  3.5950368919104605`^9, {3.595037958754481`^9, 3.5950379925294127`^9}}],

Cell[BoxData["5"], "Print",
CellChangeTimes->{
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  3.5950368919104605`^9, {3.595037958754481`^9, 3.595037992554414`^9}}],

Cell[BoxData["6"], "Print",
CellChangeTimes->{
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  3.5950368919104605`^9, {3.595037958754481`^9, 3.595037992576415`^9}}],

Cell[BoxData["7"], "Print",
CellChangeTimes->{
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  3.5950368919104605`^9, {3.595037958754481`^9, 3.5950379925924163`^9}}],

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  3.5950368919104605`^9, {3.595037958754481`^9, 3.595037992604417`^9}}],

Cell[BoxData["9"], "Print",
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  3.5950368919104605`^9, {3.595037958754481`^9, 3.5950379926134176`^9}}],

Cell[BoxData["10"], "Print",
CellChangeTimes->{
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  3.5950368919104605`^9, {3.595037958754481`^9, 3.5950379926184177`^9}}],

Cell[BoxData["11"], "Print",
CellChangeTimes->{
  3.5914782620964355`^9, 3.591485426908239`^9, 3.595032022490306`^9,
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```

RowBox[{"(*",
  RowBox[{"Check", " ", "that", " ", "psi", " ", "is", " ", "correctly", " ", "normalized"}], " ", "*)"}]], "\[IndentingNewLine]",
RowBox[{"Chop", "["],
  RowBox[{"psi", "."],
  RowBox[{"Conjugate", "["], "psi", "]""]], ""]], ";"}]], "Input",
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      TagBox[GridBox[
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            RowBox[{"0.10967189536994762`", " ", "\[ImaginaryI]"}]}],
          {
            RowBox[{"0.06909862405564564`", "\[InvisibleSpace]", "-",
              RowBox[{"0.07540097347822647`", " ", "\[ImaginaryI]"}]}],
          {
            RowBox[{"-", "0.14264968935742722`"},
            RowBox[{"0.08629537310374771`", " ", "\[ImaginaryI]"}]}],
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          {
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            RowBox[{"0.1366591894684513`", " ", "\[ImaginaryI]"}]}],
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            RowBox[{"-", "0.011888440007381438`"},
            RowBox[{"0.03919419443671216`", " ", "\[ImaginaryI]"}]}],
          {
            RowBox[{"0.15264864002935666`", "\[InvisibleSpace]", "-",
              RowBox[{"0.005727657247128399`", " ", "\[ImaginaryI]"}]}],
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            RowBox[{"-", "0.16497888830803015`"},
            RowBox[{"0.09773342401411425`", " ", "\[ImaginaryI]"}]}],
          {
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            RowBox[{"0.008033911062942522`", " ", "\[ImaginaryI]"}]}],
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            RowBox[{"0.09100344394944698`", " ", "\[ImaginaryI]"}]}],
          {
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          }
        ]
      ]
    ]
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]

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RowBox[{"0.15750546506711072`", " ", "\[ImaginaryI]"}]}],
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RowBox[{"-", "0.11605066000966317`"}], "-",
RowBox[{"0.1928629207042244`", " ", "\[ImaginaryI]"}]}],
{
RowBox[{
RowBox[{"-", "0.18017511221465626`"}], "+",
RowBox[{"0.047546107640223`", " ", "\[ImaginaryI]"}]}],
{
RowBox[{"0.10284296857803464`", "\[InvisibleSpace]", "-",
RowBox[{"0.0015149068192854092`", " ", "\[ImaginaryI]"}]}],
{
RowBox[{"0.1913078955989139`", "\[InvisibleSpace]", "+",
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RowBox[{"0.08691127718866955`", "\[InvisibleSpace]", "-",
RowBox[{"0.17390784937692785`", " ", "\[ImaginaryI]"}]}],
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RowBox[{"0.07088858145185194`", "\[InvisibleSpace]", "-",
RowBox[{"0.10826424271072928`", " ", "\[ImaginaryI]"}]}],
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RowBox[{"0.11447261639042224`", "\[InvisibleSpace]", "-",
RowBox[{"0.1876266335846987`", " ", "\[ImaginaryI]"}]}],
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RowBox[{
RowBox[{"-", "0.0153936756262673`"}], "-",
RowBox[{"0.1405449322634437`", " ", "\[ImaginaryI]"}]}],
{
RowBox[{
RowBox[{"-", "0.033109791522069165`"}], "-",
RowBox[{"0.17435670395676794`", " ", "\[ImaginaryI]"}]}],
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RowBox[{"0.14405014099401214`", "\[InvisibleSpace]", "+",
RowBox[{"0.14752510298464247`", " ", "\[ImaginaryI]"}]}],
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    3.595037226621605*^9, 3.5950372353691053*^9}, 3.595037997240682*^9,
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